

FIG. 2

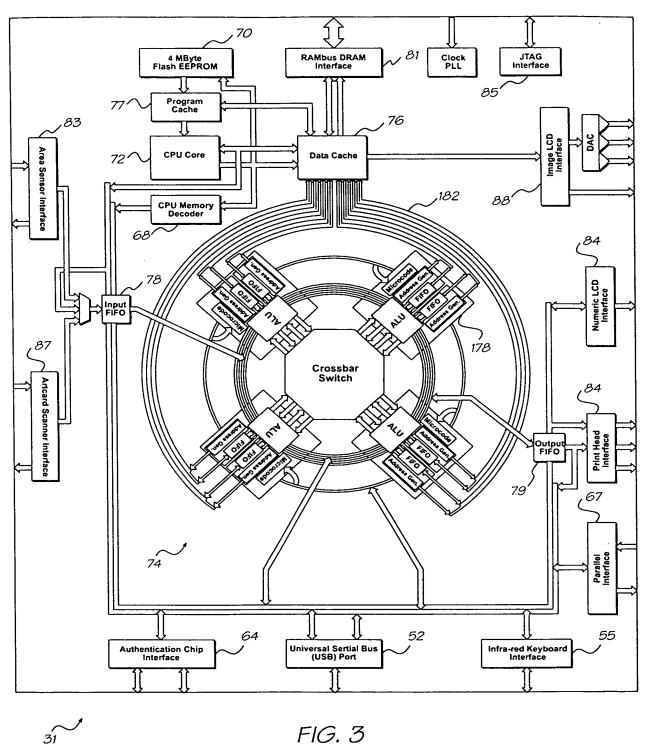


FIG. 3



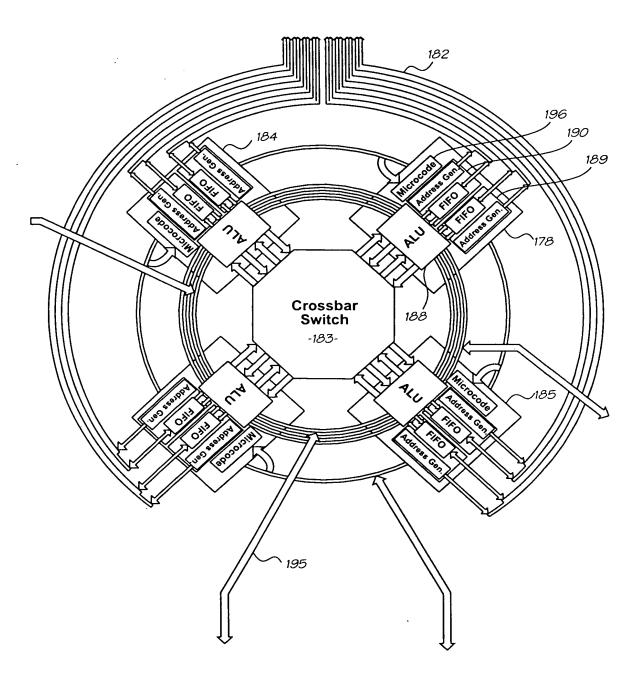


FIG. 3(a)

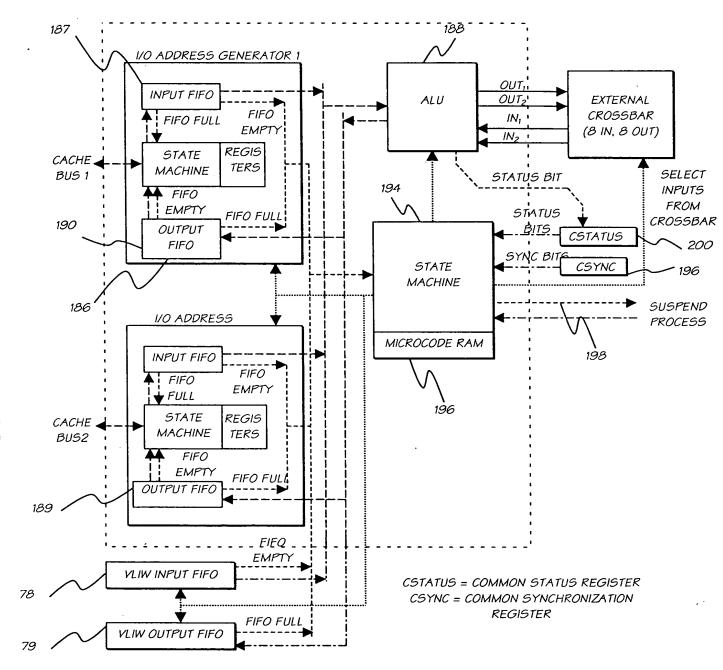


FIG. 4





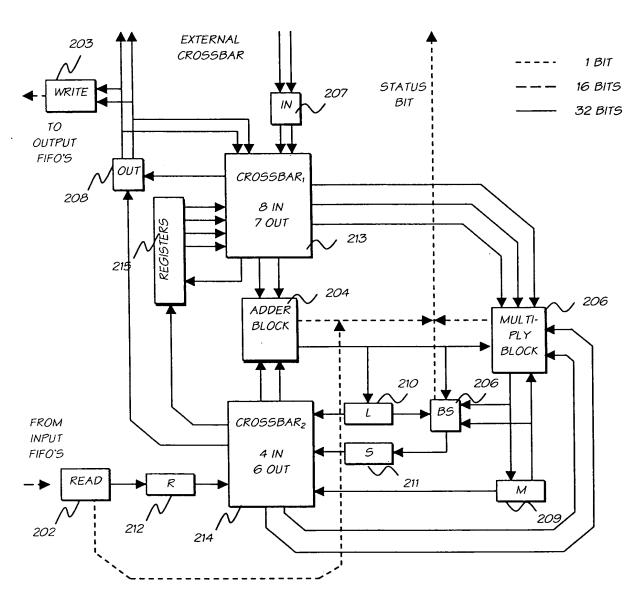


FIG. 5

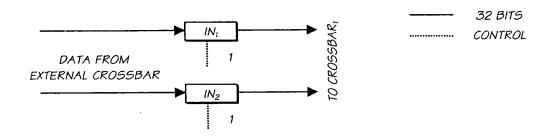


FIG. 6

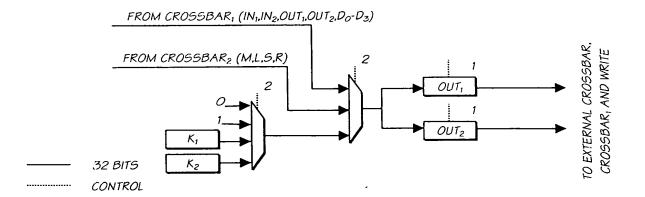


FIG. 7

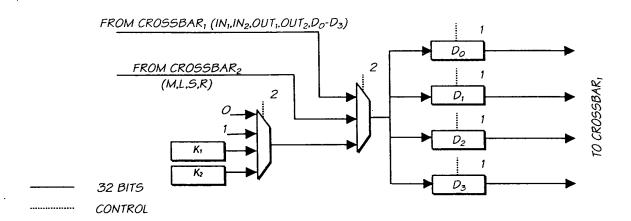


FIG. 8

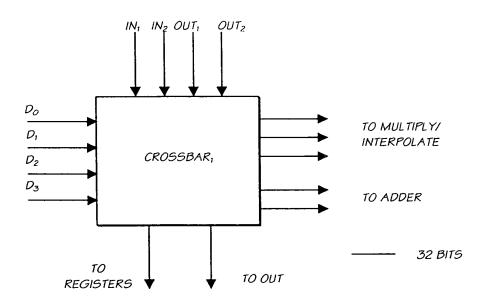


FIG. 9

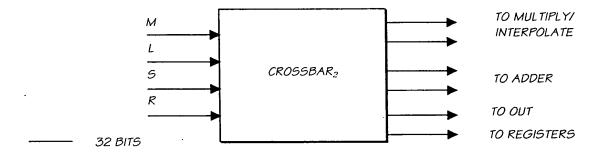


FIG. 10

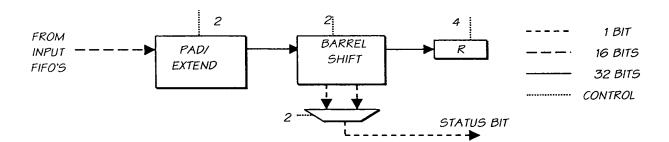


FIG. 11

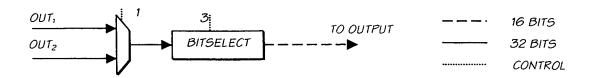


FIG. 12

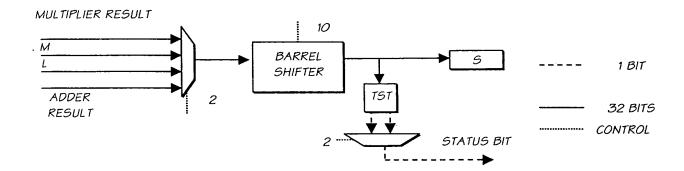
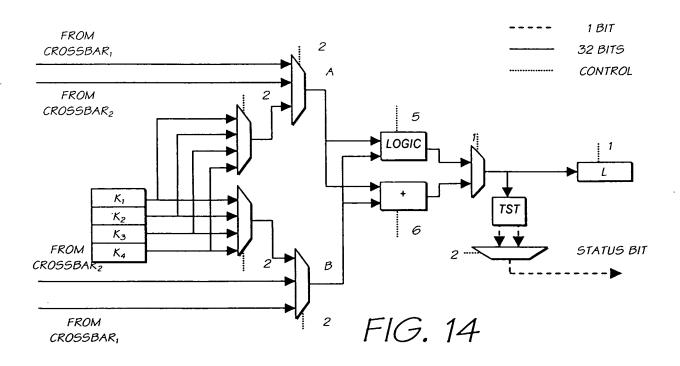
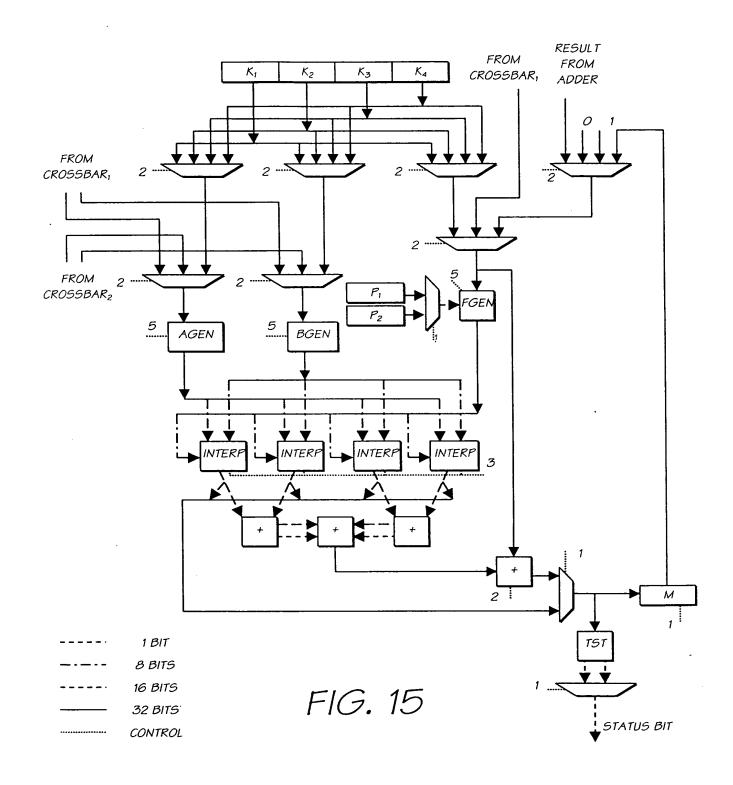


FIG. 13





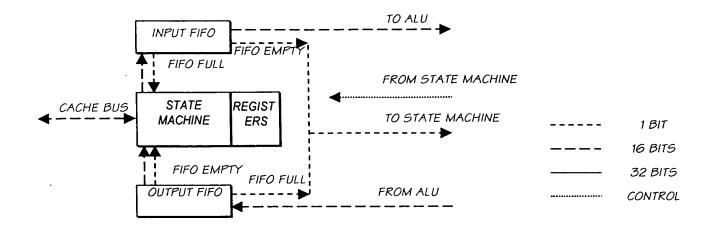


FIG. 16

ORDER OF PIXELS PRESENTED BY A SEQUENTIAL READ ITERATOR ON A 4 X 2 IMAGE WITH PADDING.

0	1	2	3	
4	5	6	7	

FIG. 17

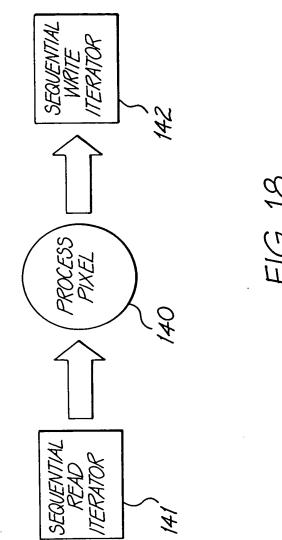
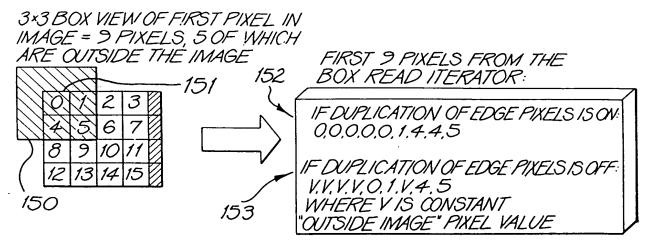


FIG. 18

A 3×3 BOX VIEW TRAVERSES THE PIXELS IN ORDER: 0,1,2,3,4,5,6,7,8 ETC, PLACING A 3×3 BOX CENTERED OVER EACH PIXEL...



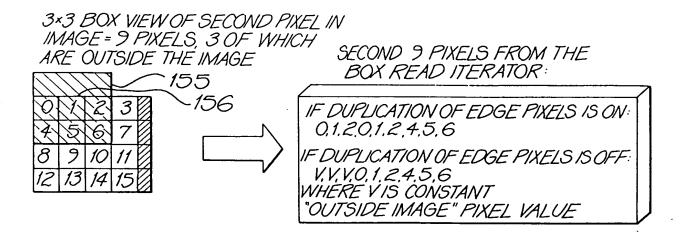


FIG. 19

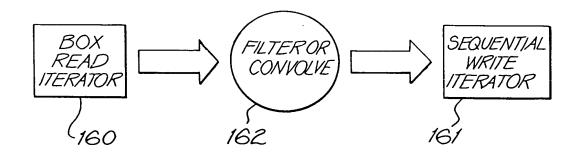


FIG. 20

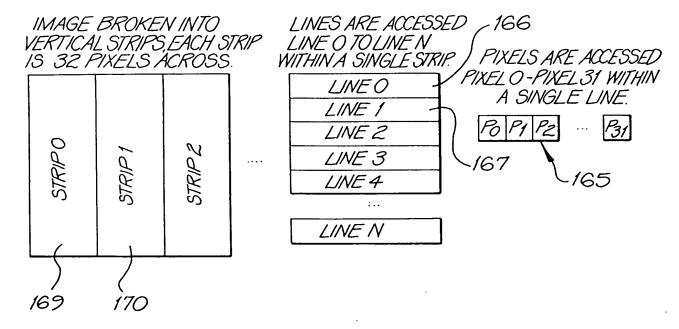


FIG. 21

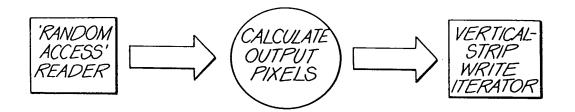


FIG. 22

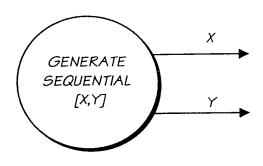


FIG. 23

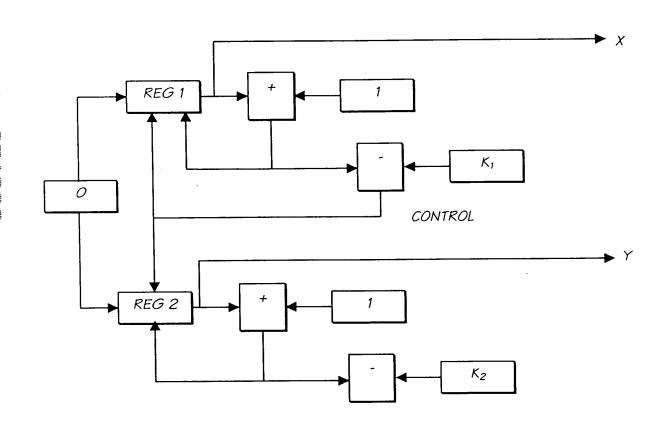


FIG. 24

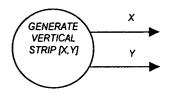


FIG. 25

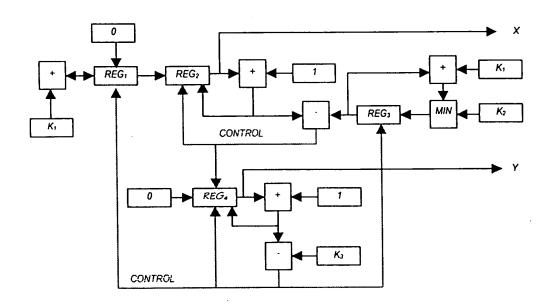


FIG. 26



FIG. 27

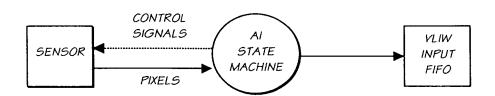


FIG. 28

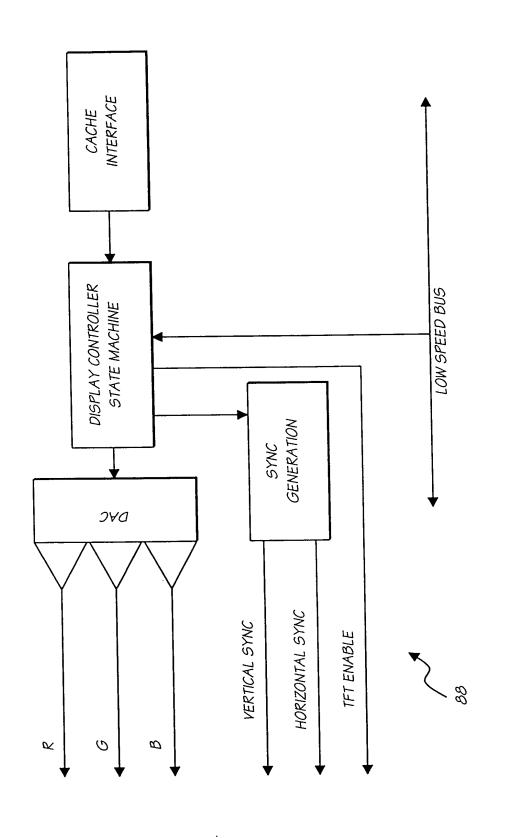


FIG. 29



2×2 PIXEL BLOCK FROM CCD

FIG. 30

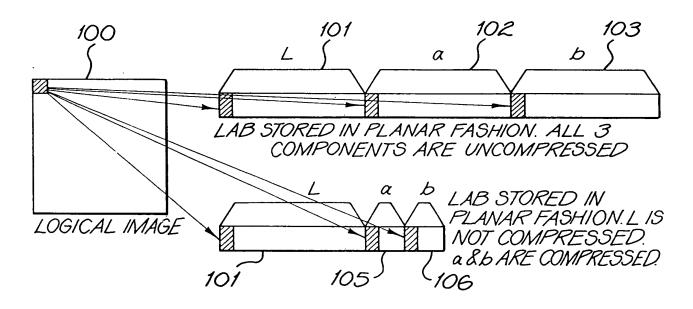


FIG. 31

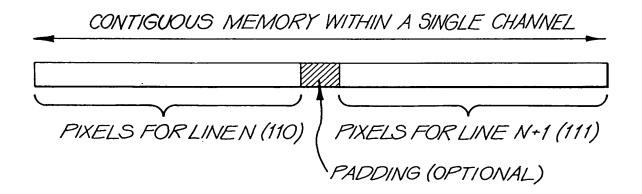
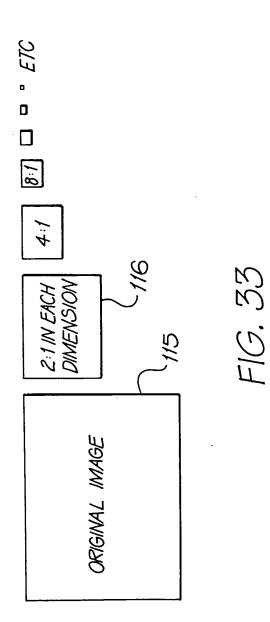


FIG. 32



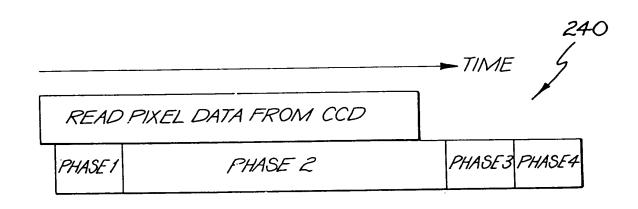


FIG. 34

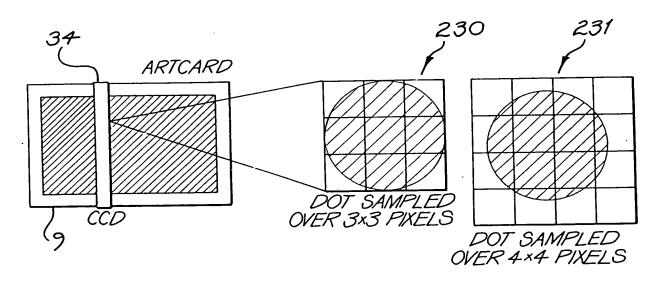
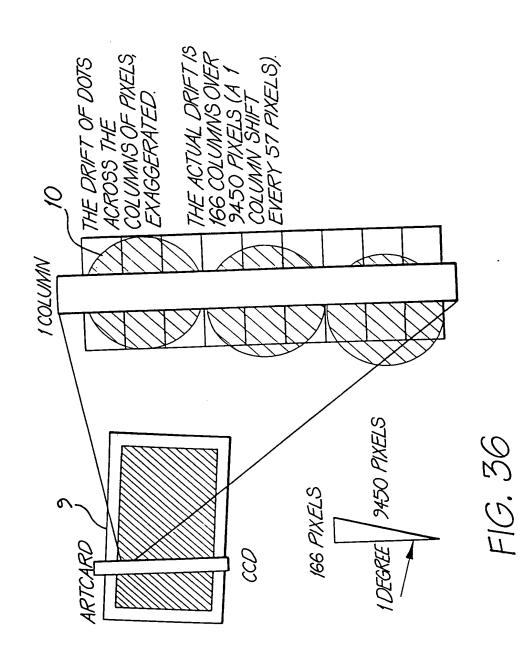
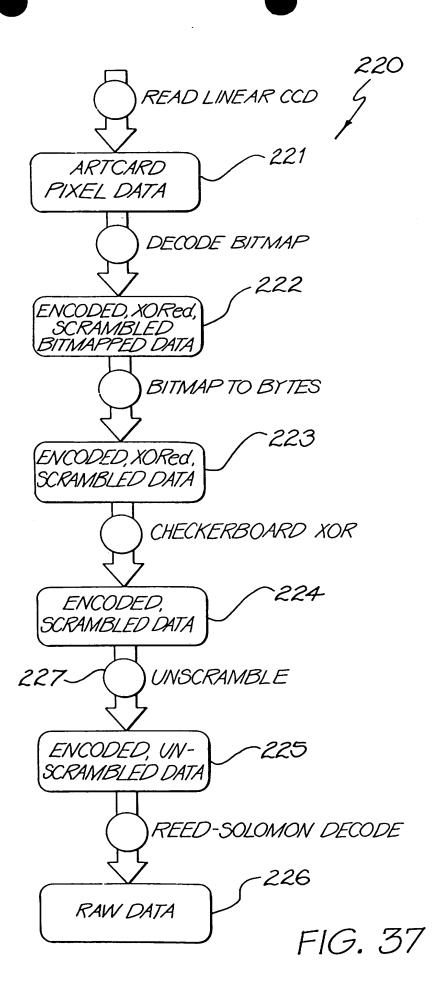


FIG. 35





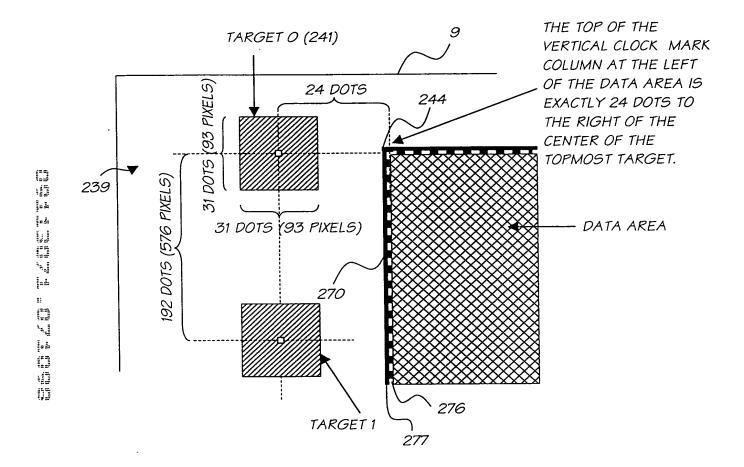


FIG. 38

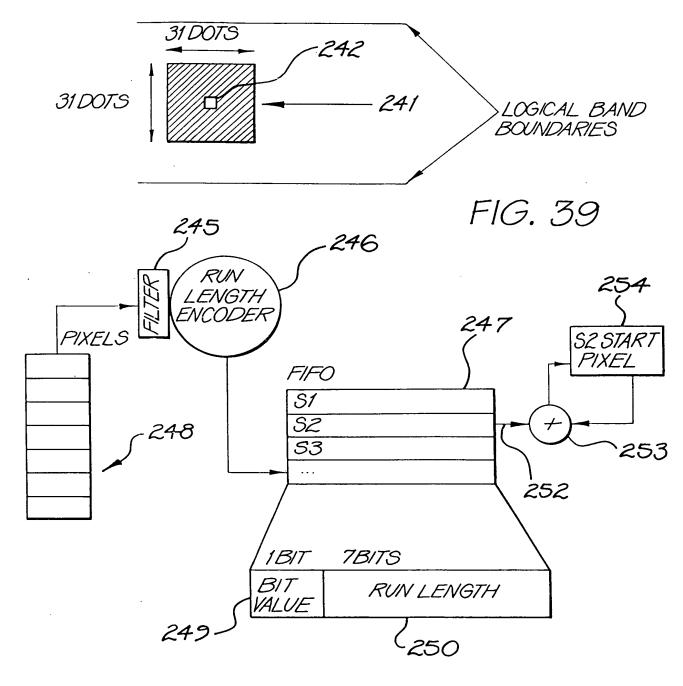


FIG. 40

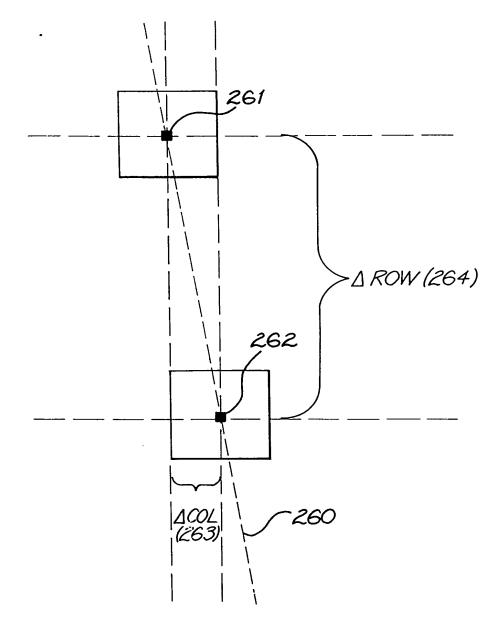
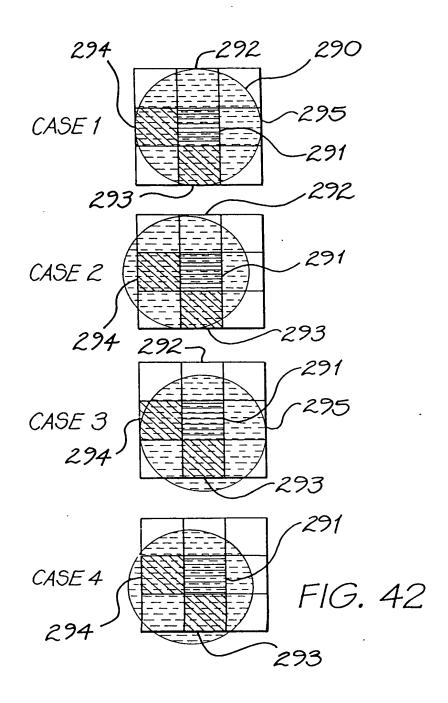


FIG. 41



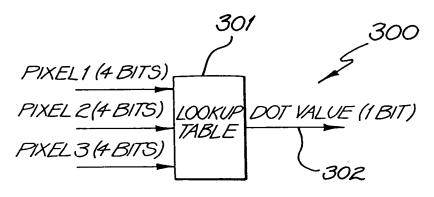


FIG. 43

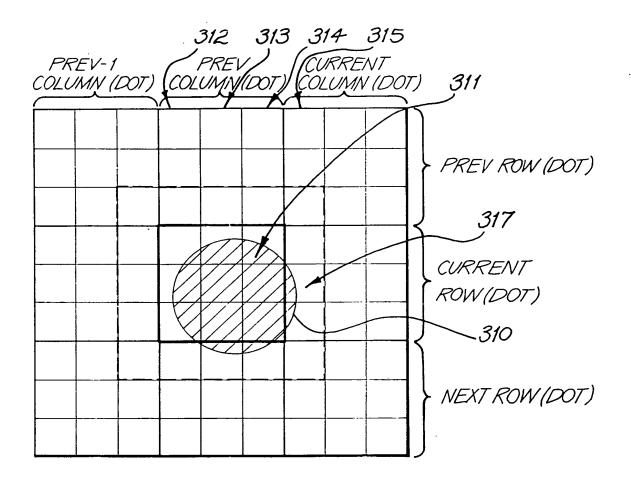
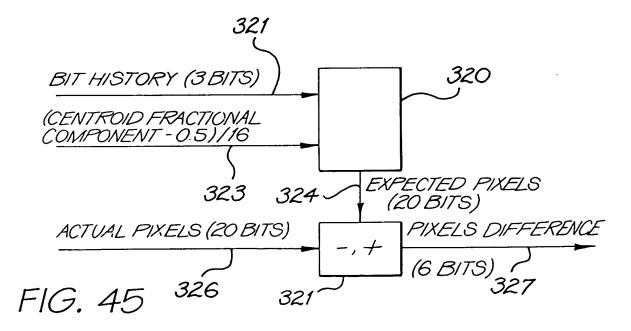


FIG. 44



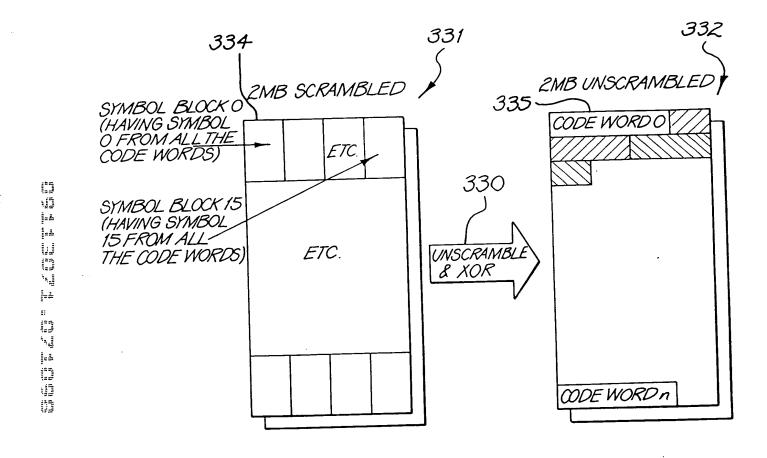
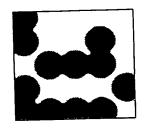
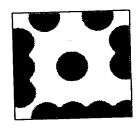


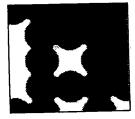
FIG. 46



BLACK AND WHITE DOTS



BLACK DOT SURROUNDED BY WHITE



WHITE DOT SURROUNDED BY BLACK

FIG. 47

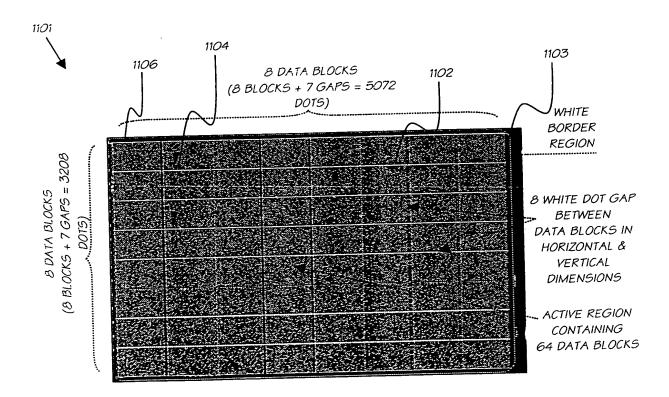
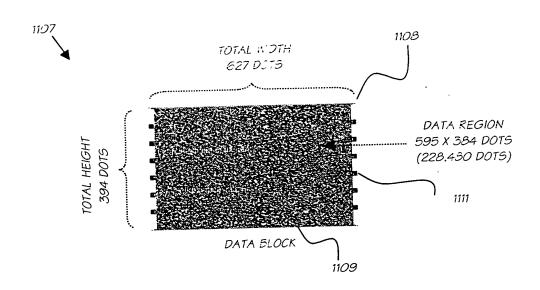
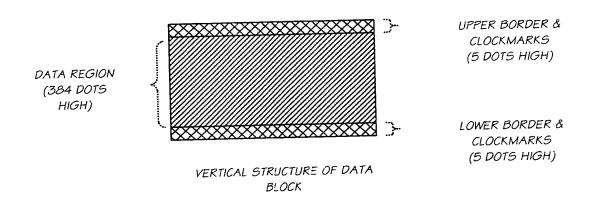


FIG. 48





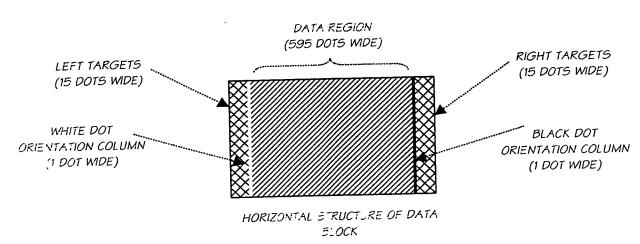


FIG. 49

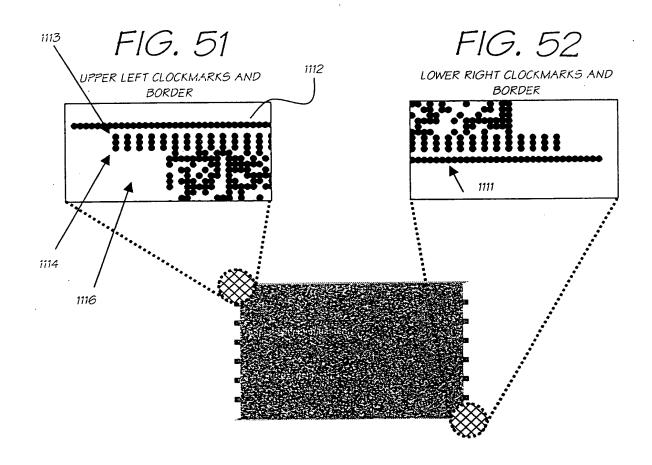


FIG. 50

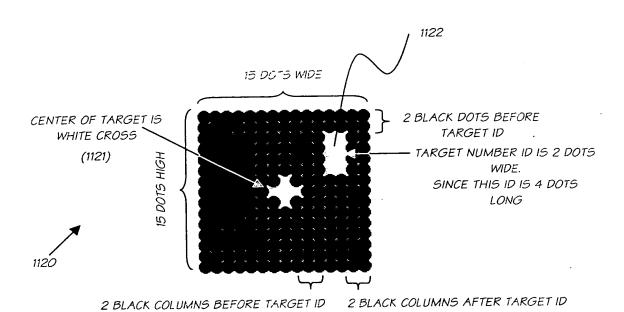
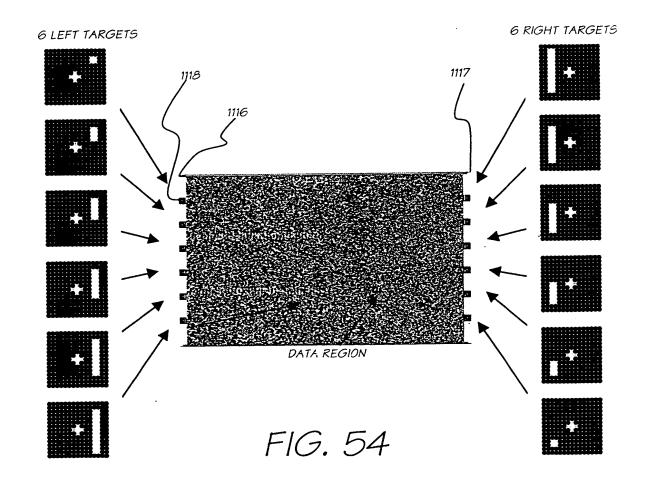


FIG. 53



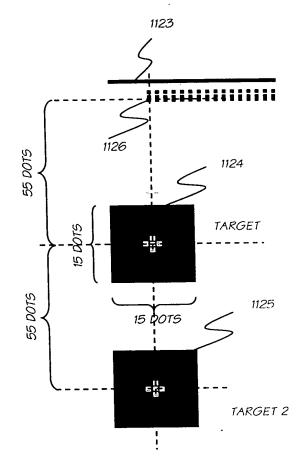


FIG. 55

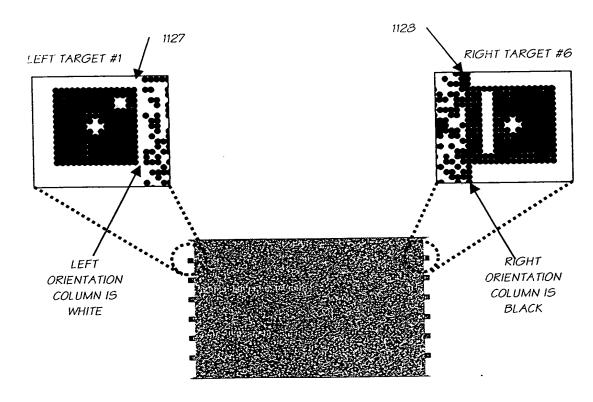
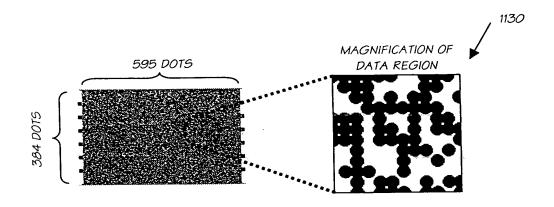


FIG. 56



```
00: 4F 00 3D 4F 00 3D 4F 00 3D 4F 00 3D
OC: 4F 00 3D 4F 00 3D 4F 00 3D 4F 00 3D
                                               32 COPIES OF
                    3D 4F 00 3D 4F 00 3D
       00
          3D 4F
                00
                    3D 4F 00 3D 4F 00 3D
                                               THE 3 BYTE
          3D
                00
                             3D 4F 00 3D
                                                CONTROL
                    3D 4F 00
          3D
                 00
                             3D 4F 00 3D
                                               INFORMATION
                          00
             4 F
                 00
                    3D
                          00
                             3D 4F
             4 F
                 00
                    3D
                       4 F
                             3D 4F 00 3D
       00 3D 4F
                 00
                    3D
                       4 F
                          00
                    00 00 00 00 00 00 00
60: 00 00 00 00
                 00
                                                RESERVED
                                       00
6C: 00 00 00 00 00 00 00 00 00 00
                                               BYTES ARE O
78: 00 00 00 00 00 00 00 00 00 00 00
```

FIG. 59

DATA BLOCK 1

DATA BLOCK 2

DATA BLOCK 1

DATA BLOCK 2

DATA BLOCK 1

DATA BLOCK N

DATA BLOCK 1

DATA BLOCK 1

DATA BLOCK 1

2 CONTROL BLOCKS.

N REED-SOLOMON BLOCKS, ENCODING THE FIRST COPY OF THE DATA.

N REED-SOLOMON BLOCKS, ENCODING THE SECOND COPY OF THE DATA.

OTHER COPIES OF THE DATA (NOT SHOWN) EACH COPY IS N BLOCKS.

FINAL COPY OF DATA - THERE IS ONLY ENOUGH SPACE FOR FIRST 2 OF THE N BLOCKS.

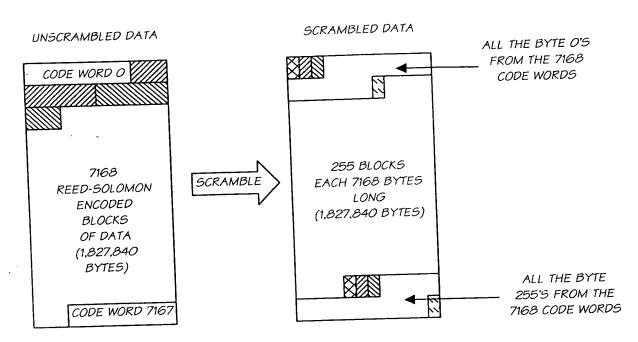


FIG. 60

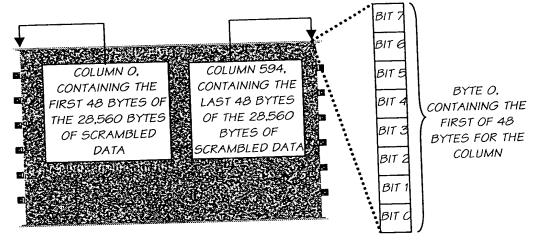


FIG. 61

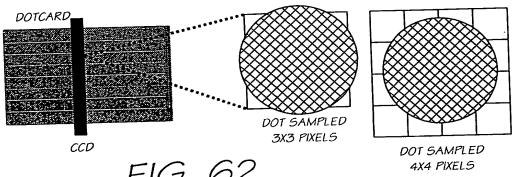


FIG. 62

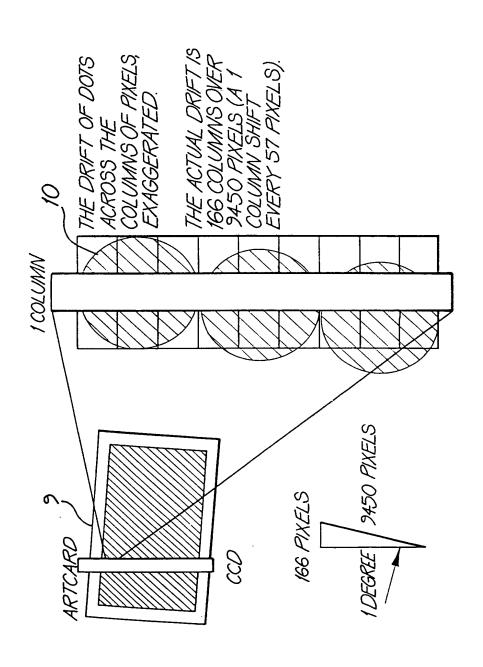


FIG. 63

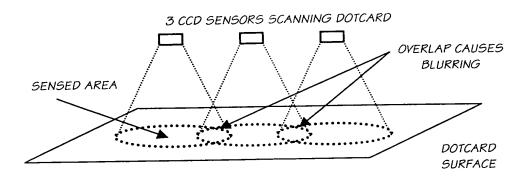
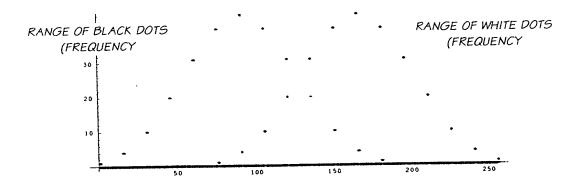
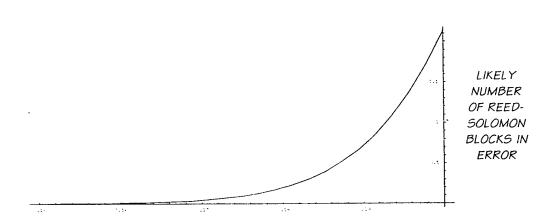


FIG. 64

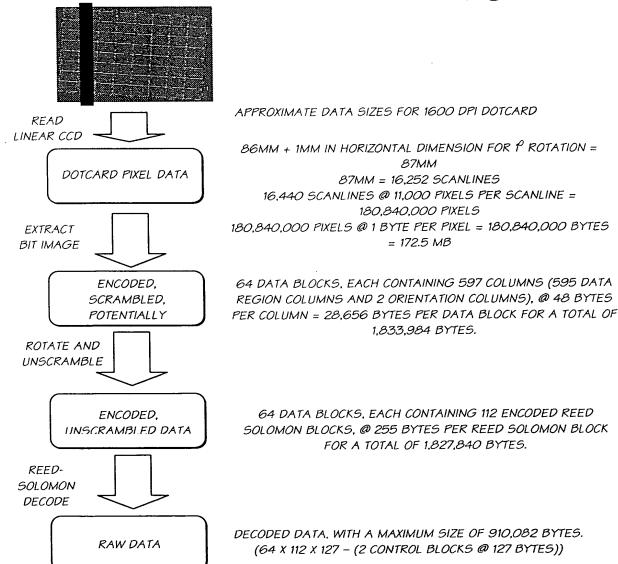


CENTER DOT PIXEL VALUE

FIG. 65



PROBABILITY OF A SYMBOL BEING IN ERROR DURING A READ



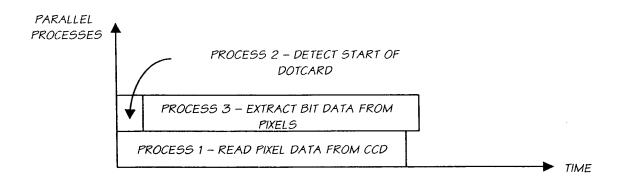


FIG. 68

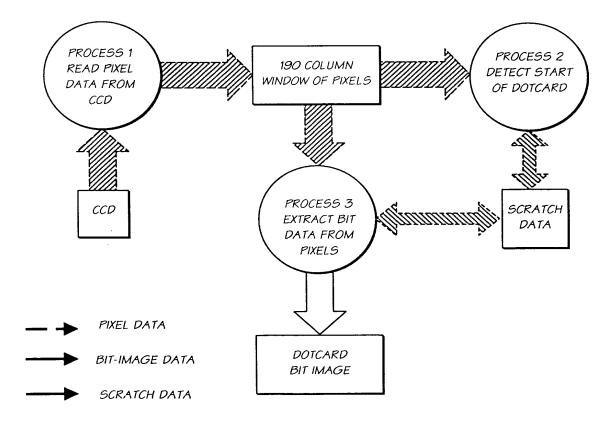


FIG. 69

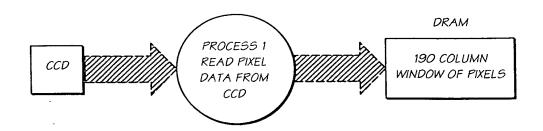


FIG. 70

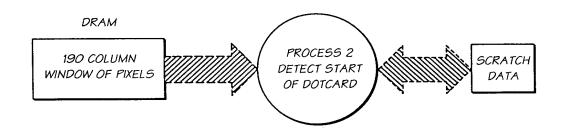


FIG. 71

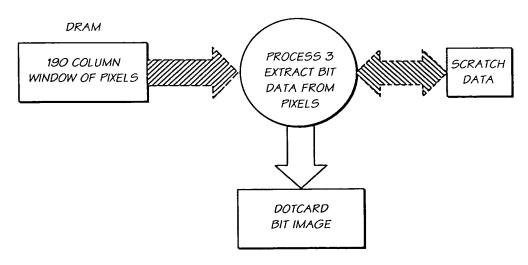


FIG. 72

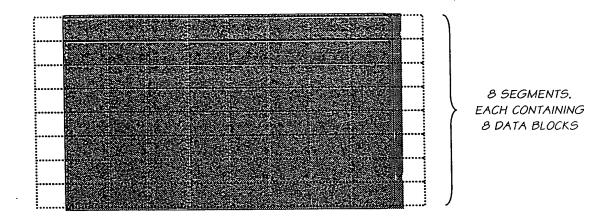


FIG. 73

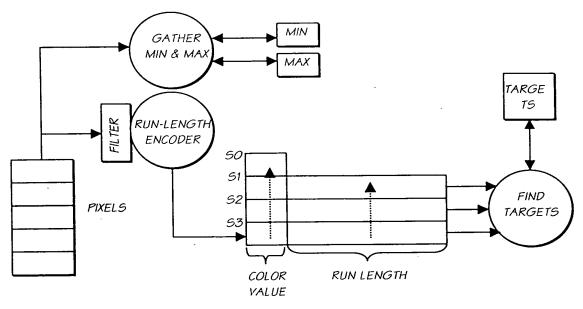
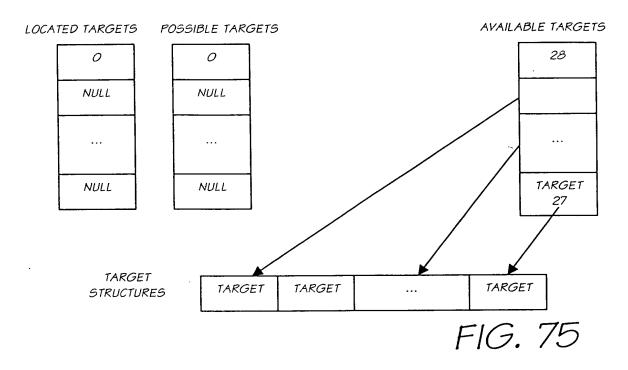
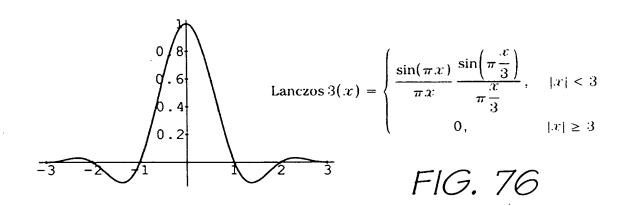


FIG. 74





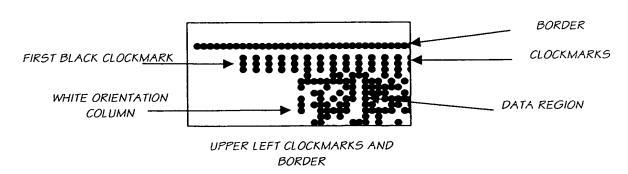


FIG. 77

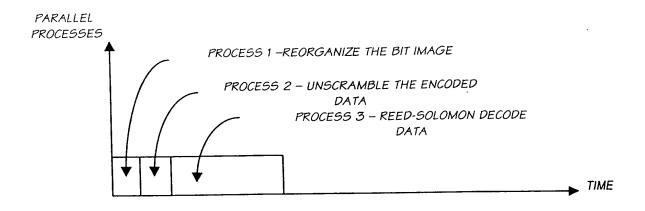


FIG. 78

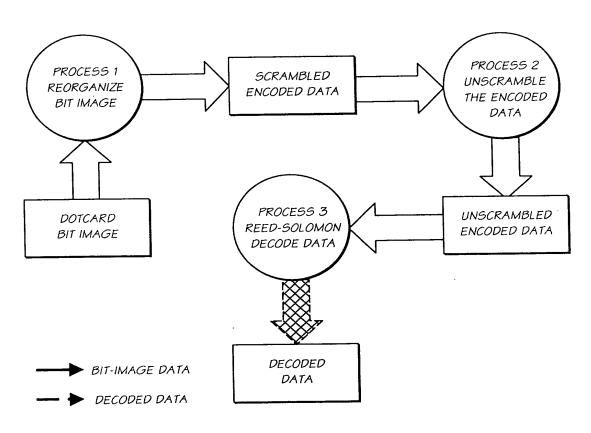
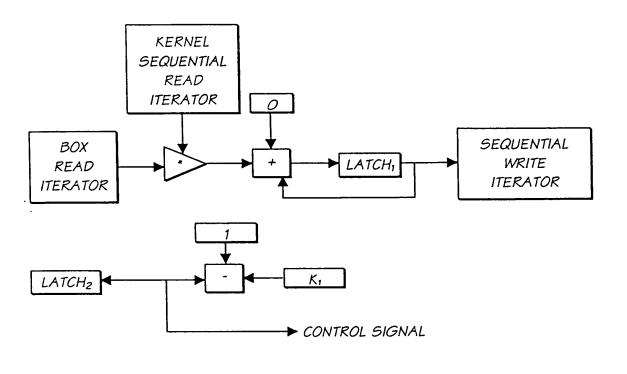
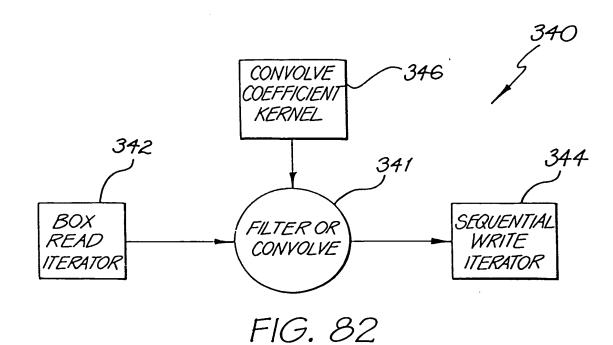
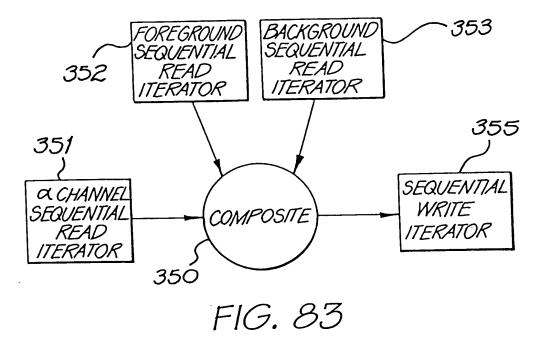


FIG. 79

FIG. 80







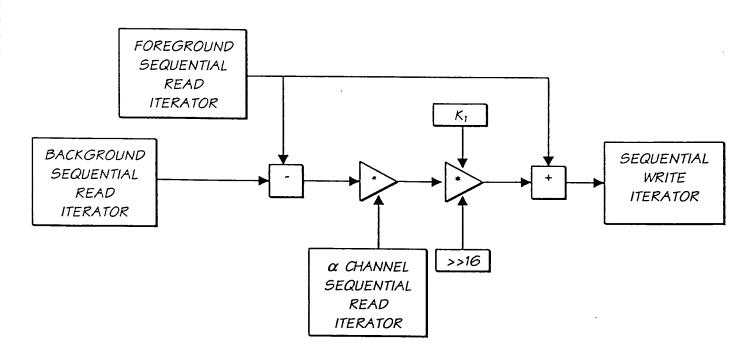
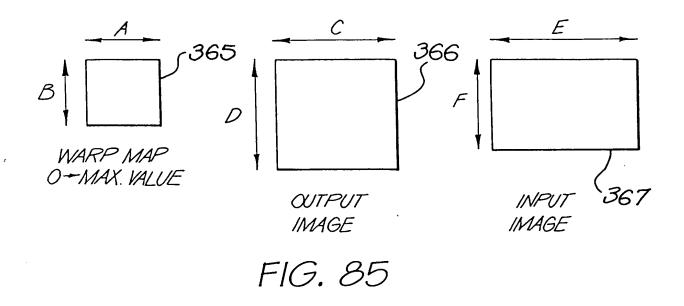


FIG. 84



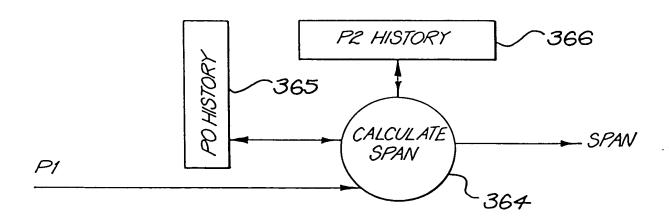


FIG. 86

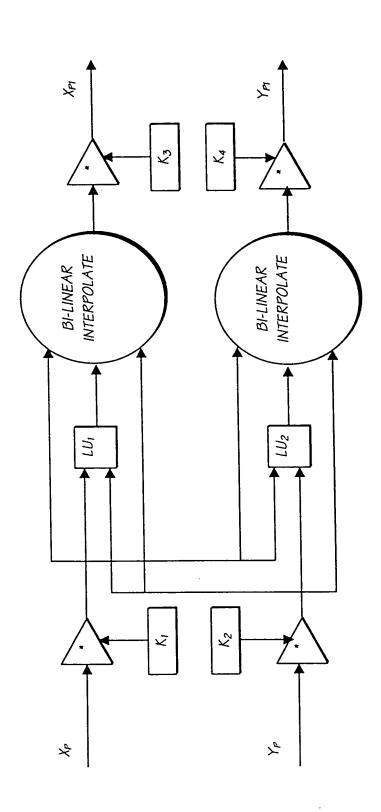


FIG. 87

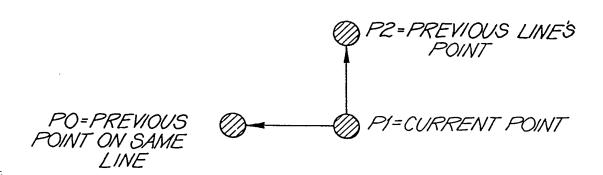


FIG. 88

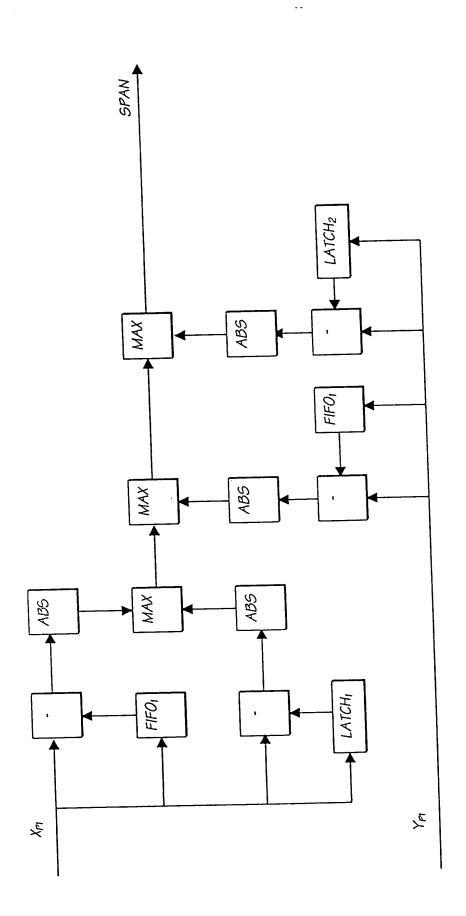
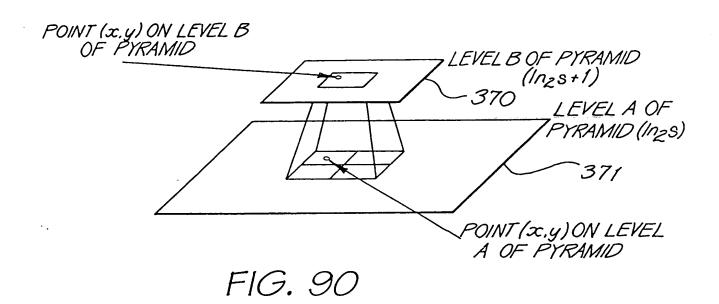


FIG. 89



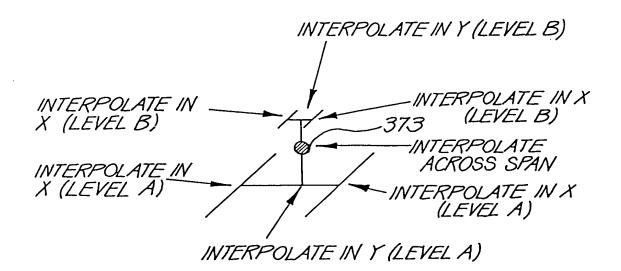


FIG. 91

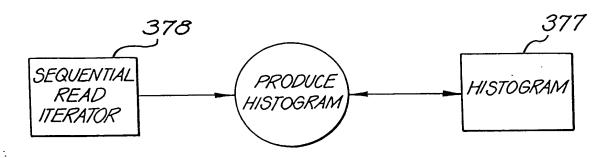


FIG. 92

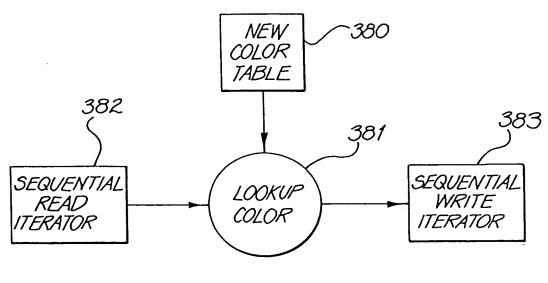
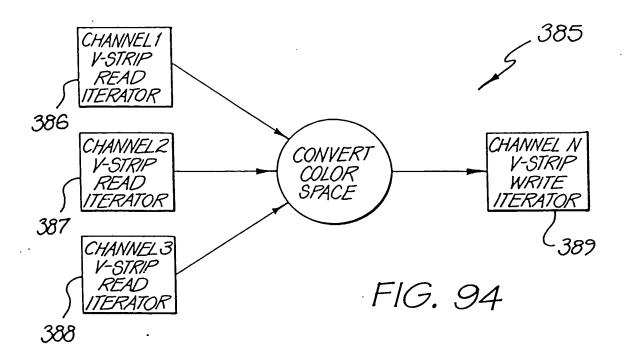
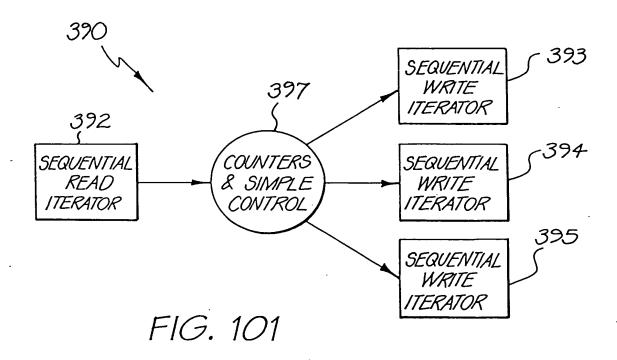
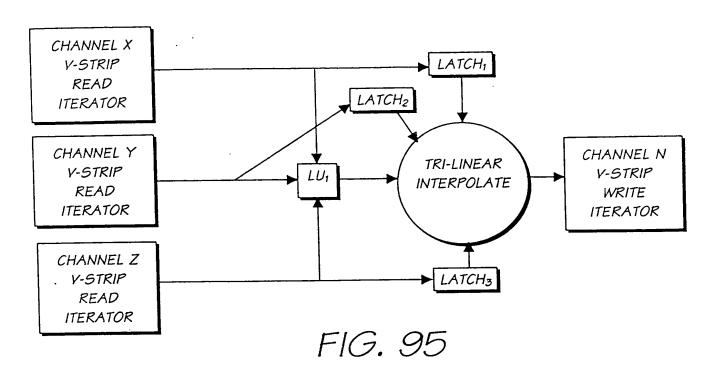


FIG. 93







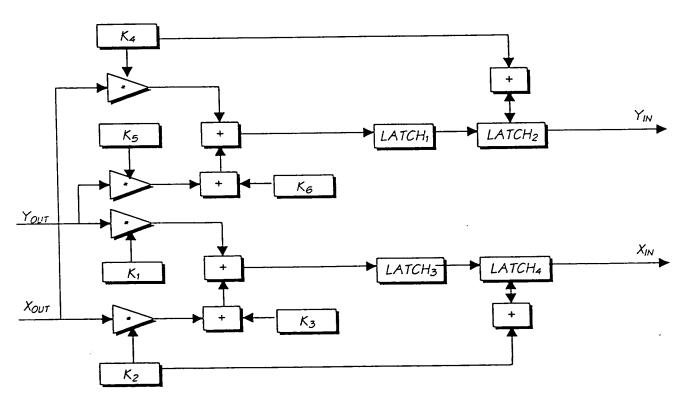


FIG. 96

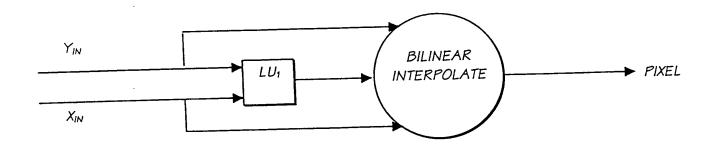


FIG. 97

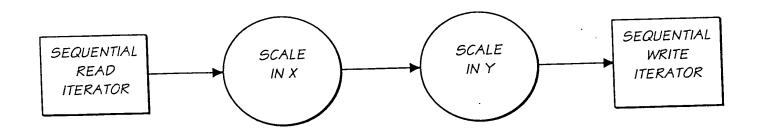
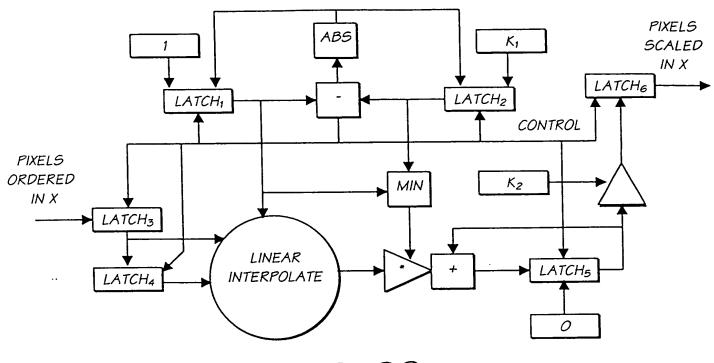


FIG. 98





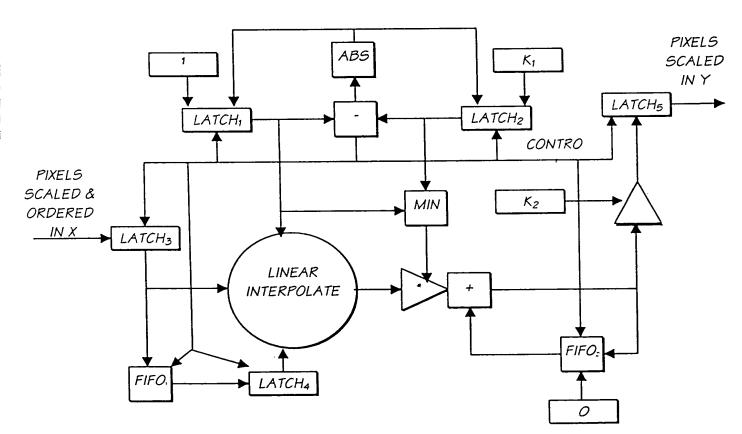
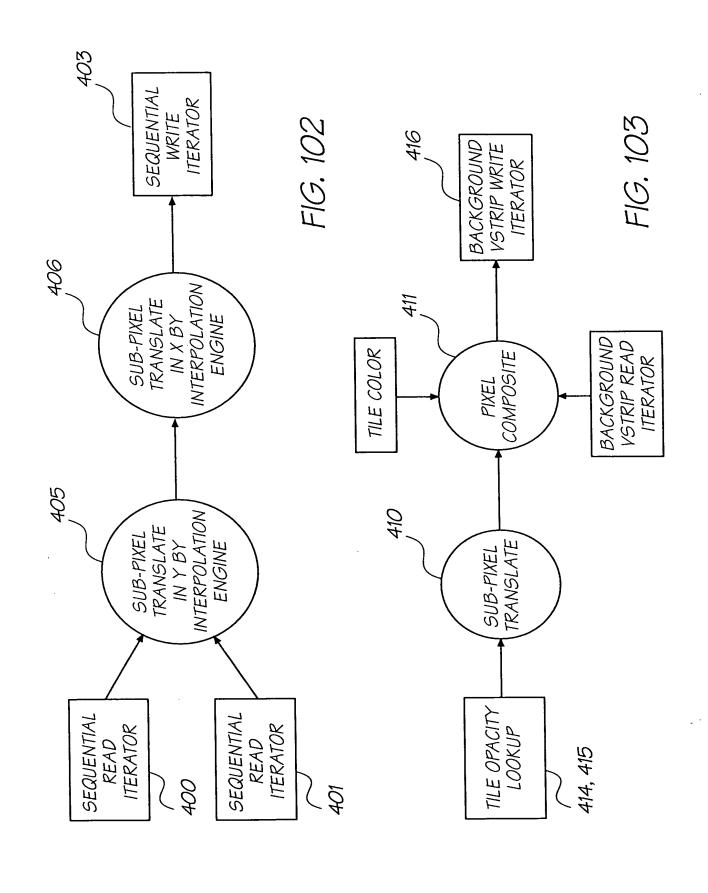
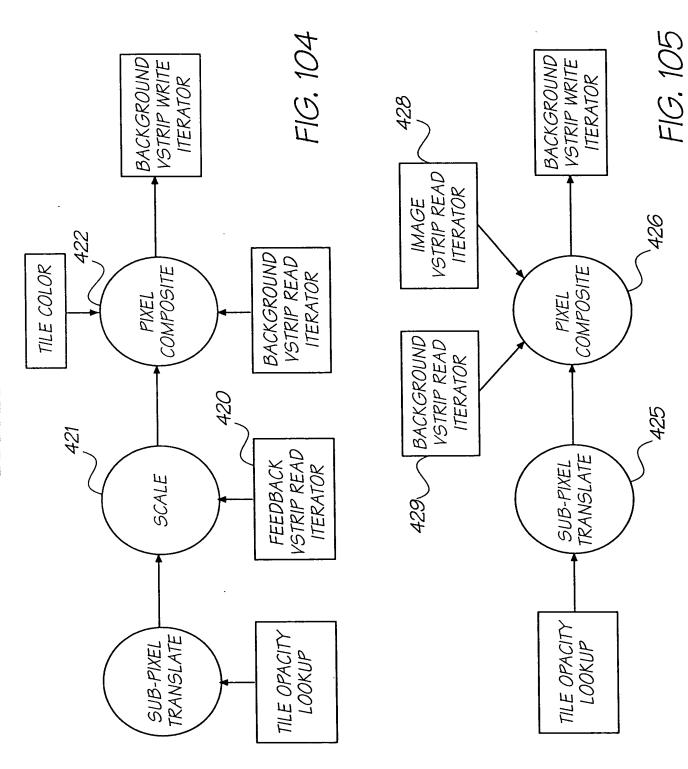


FIG. 100





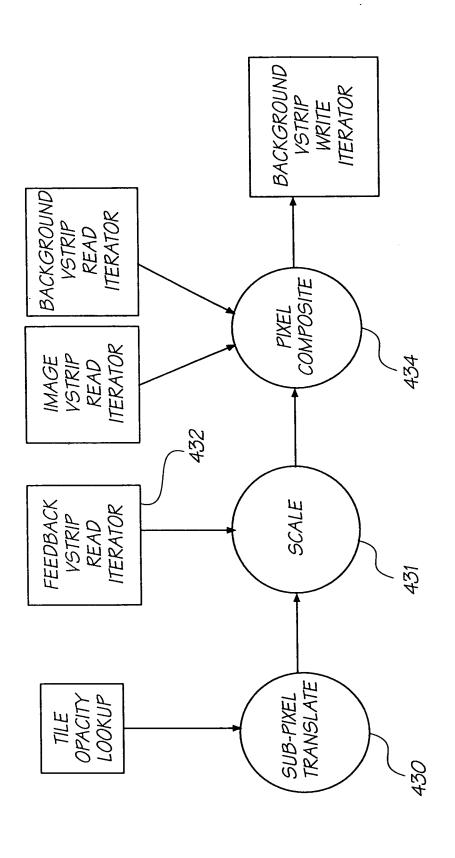


FIG. 106

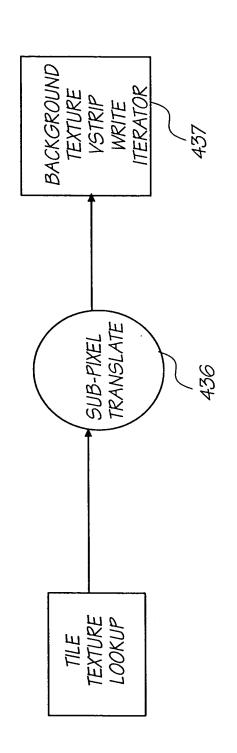


FIG. 107

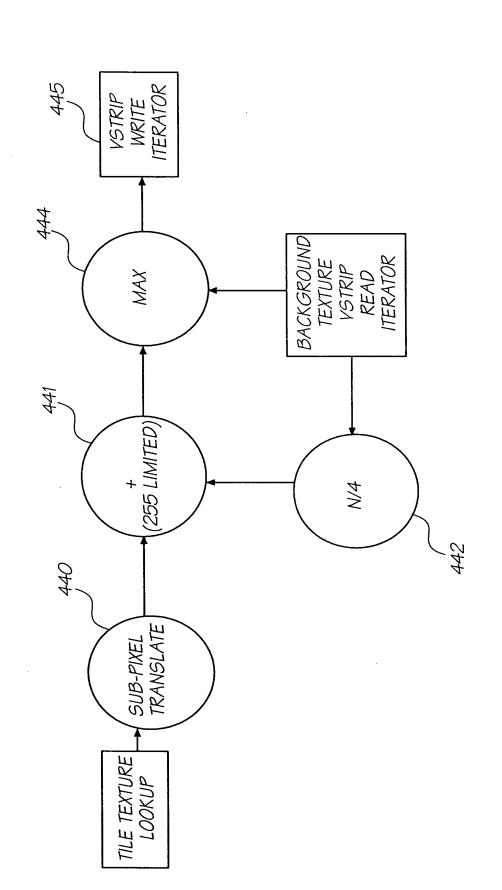
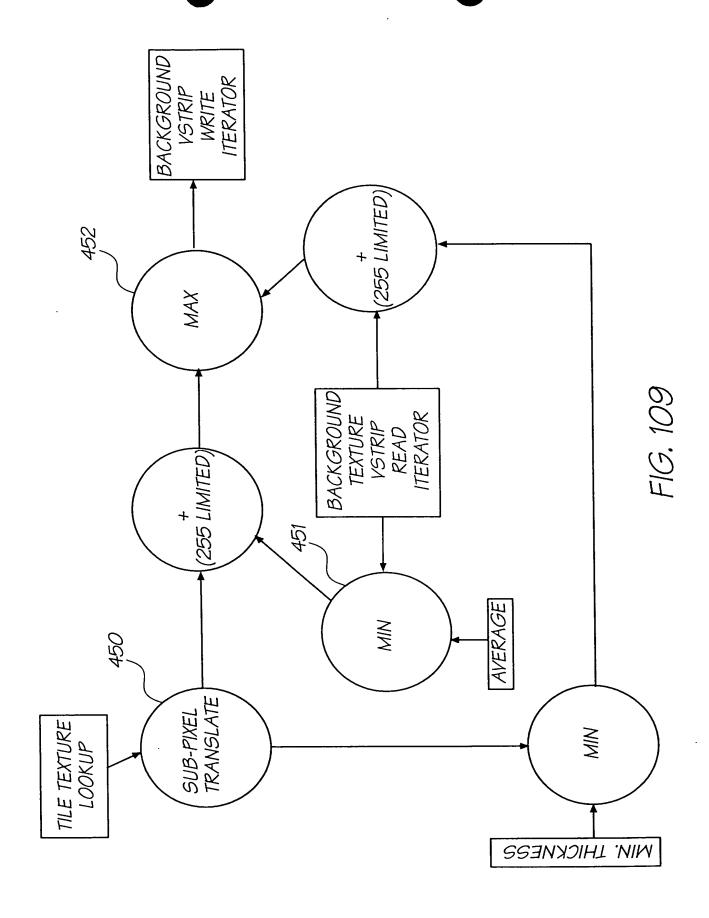


FIG. 108



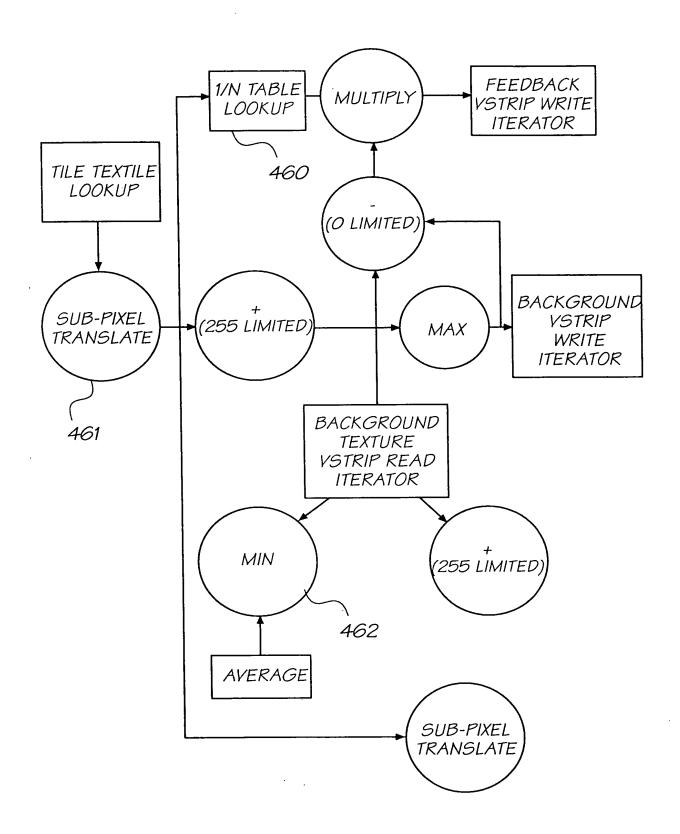


FIG. 110



2×2 PIXEL BLOCK, O DEGREES



2×2 PIXEL BLOCK, 30 DEGREES

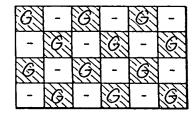


BE 2×2 PIXEL BLOCK, BO DEGREES



2×2 PIXEL BLOCK, 270 DEGREES

FIG. 111



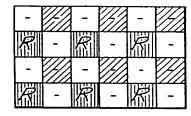
- LINEAR INTERPOLATED
PIXELS

ACTUAL PIXELS (NOT
INTERPOLATED)

-	B	-	\mathcal{B}	-	\mathcal{B}
	ı		1		-
-	B	1	\mathcal{B}	-	\mathcal{B}
	-		-		-

-	LINEAR INTERPOLATED PIXELS
	BI-LINEAR INTERPOLATED PIXELS
	ACTUAL PIXELS (NOT

FIG. 113



LINEAR INTERPOLATED
PIXELS

BI-LINEAR INTERPOLATED
PIXELS

ACTUAL PIXELS (NOT
INTERPOLATED)

FIG. 114

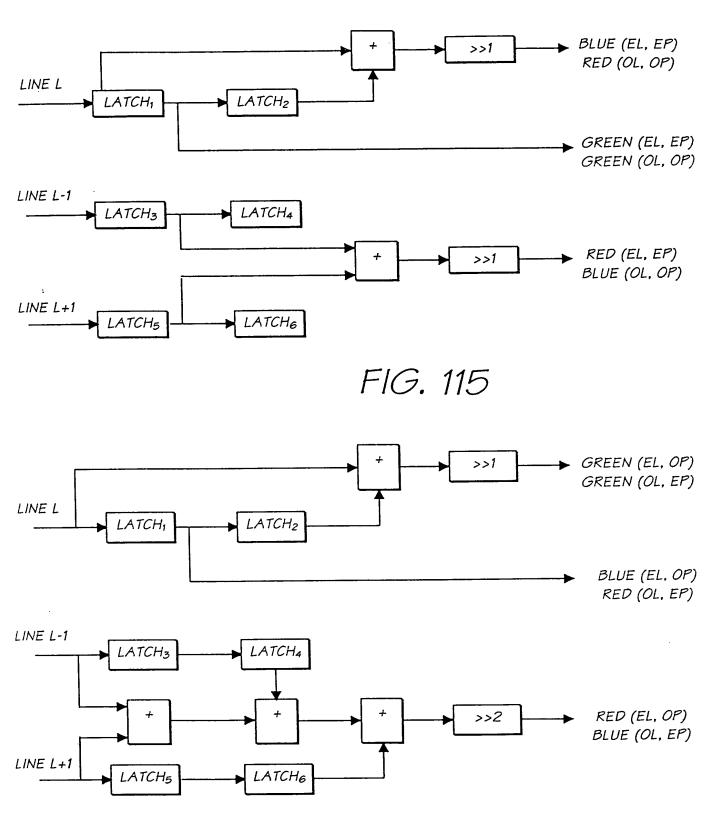


FIG. 116

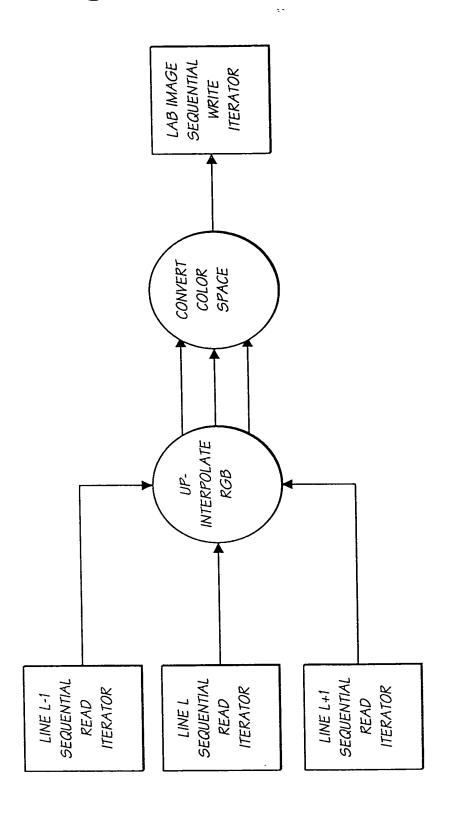


FIG. 117

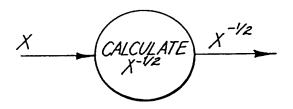


FIG. 118

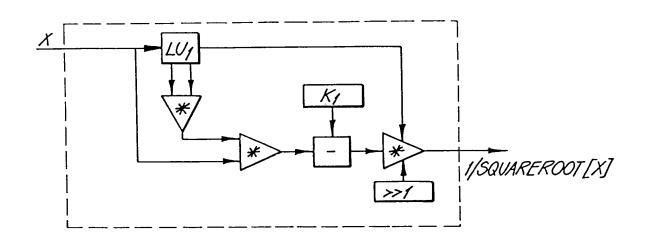
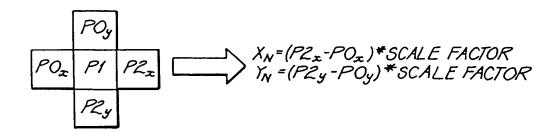
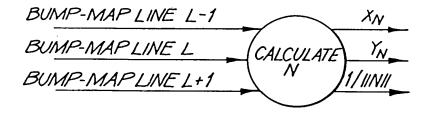


FIG. 119





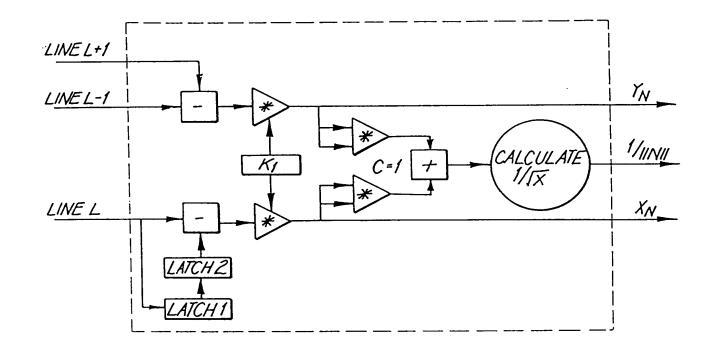


FIG. 122

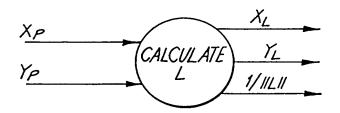


FIG. 123

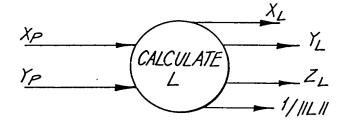


FIG. 124

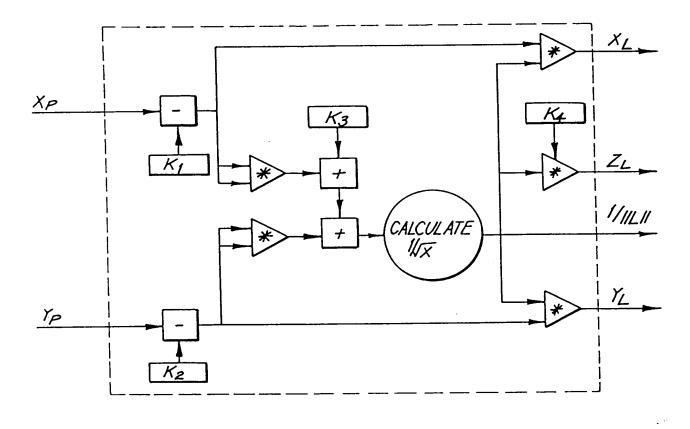


FIG. 125

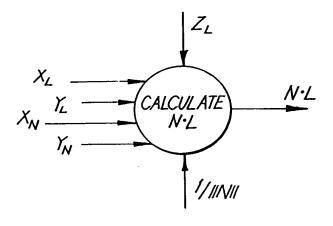


FIG. 126

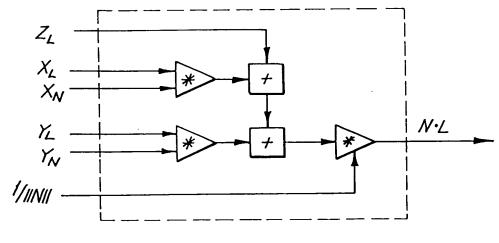


FIG. 127

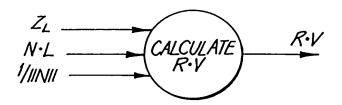


FIG. 128

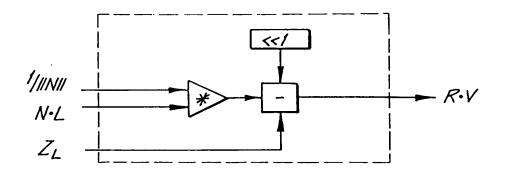


FIG. 129

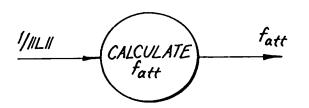


FIG. 130

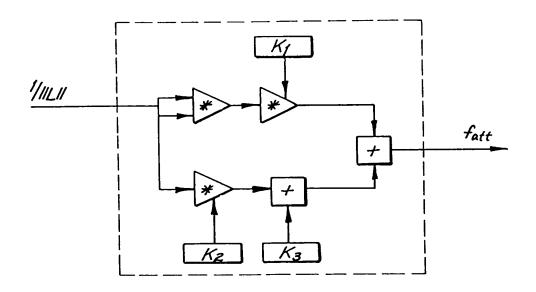


FIG. 131

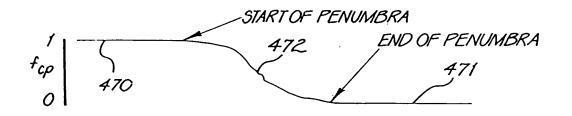


FIG. 132

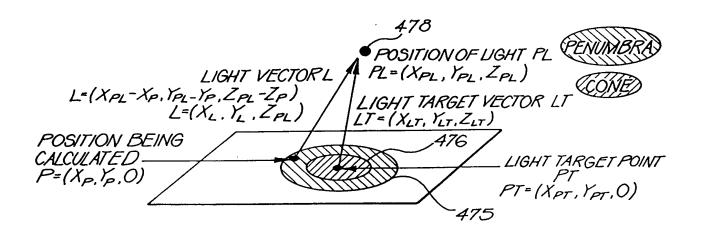
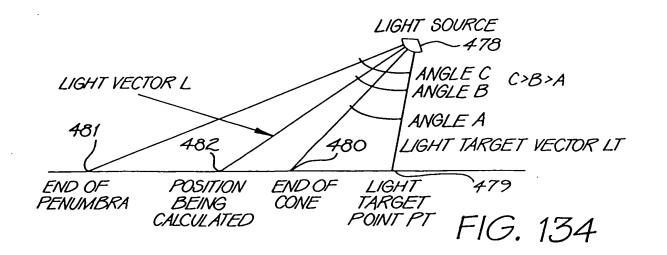


FIG. 133



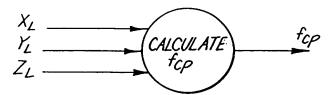


FIG. 135

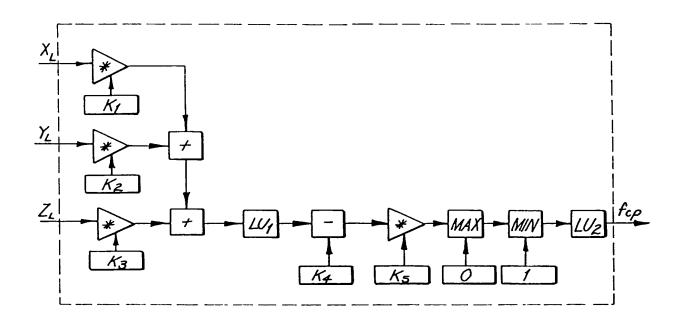


FIG. 136

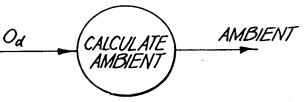


FIG. 137

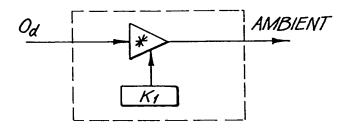


FIG. 138

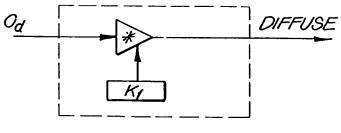


FIG. 139

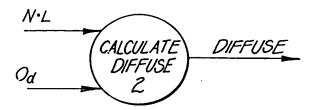
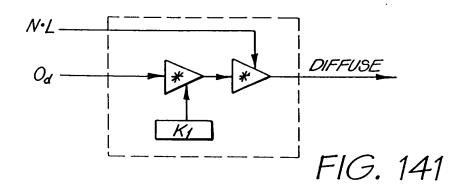


FIG. 140



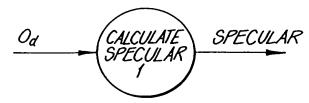
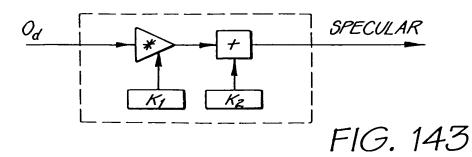


FIG. 142



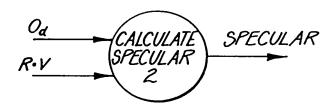


FIG. 144

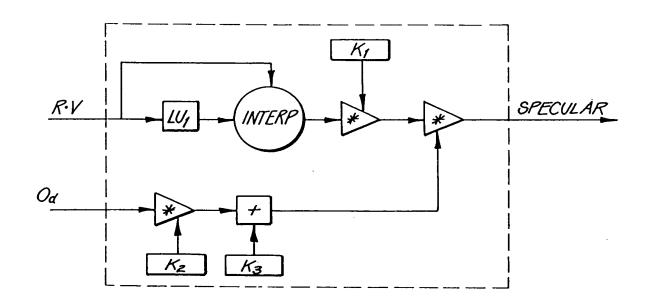


FIG. 145

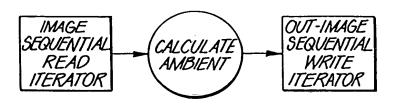


FIG. 146

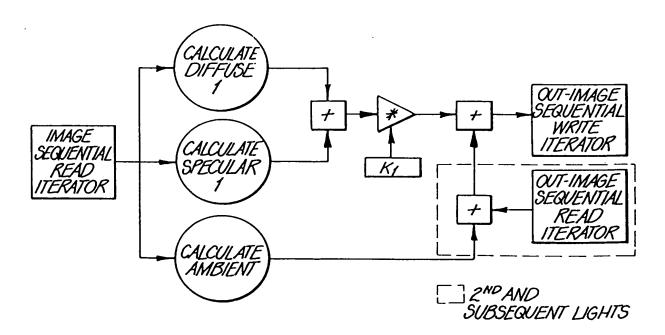


FIG. 147

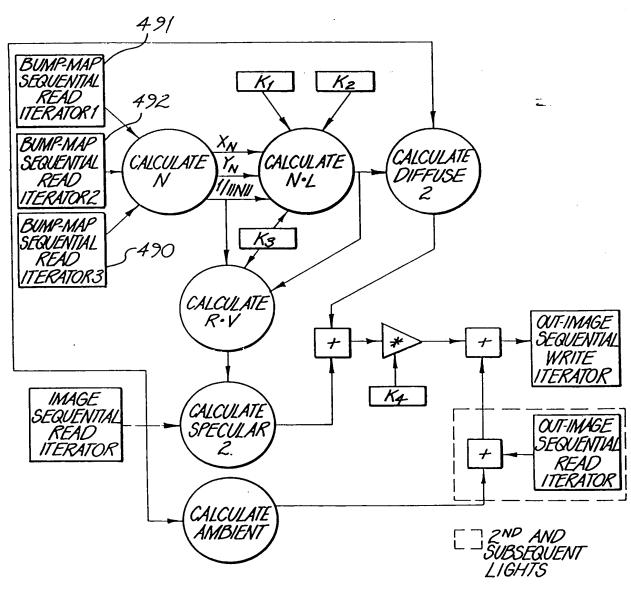


FIG. 148

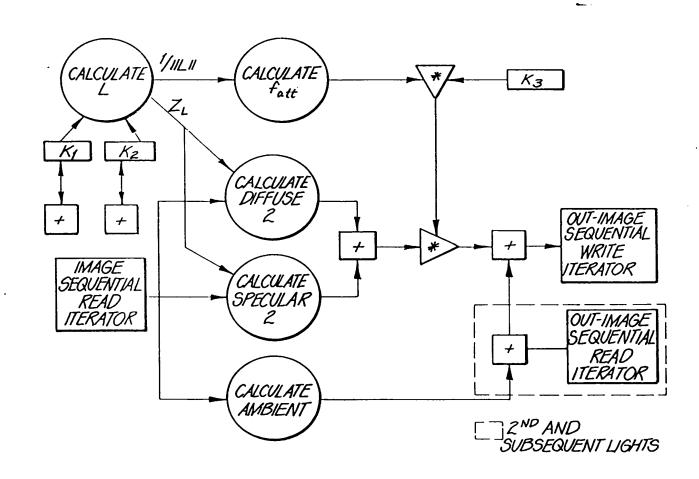


FIG. 149

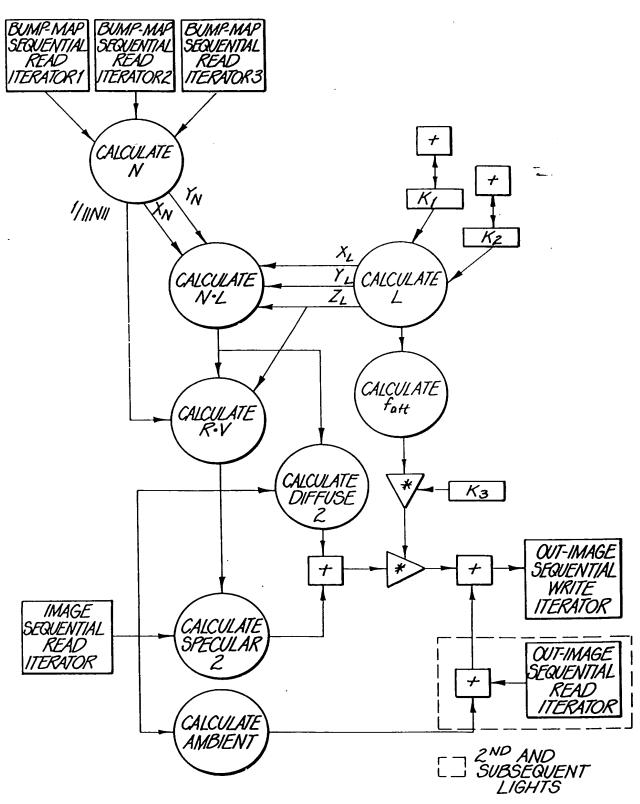


FIG. 150

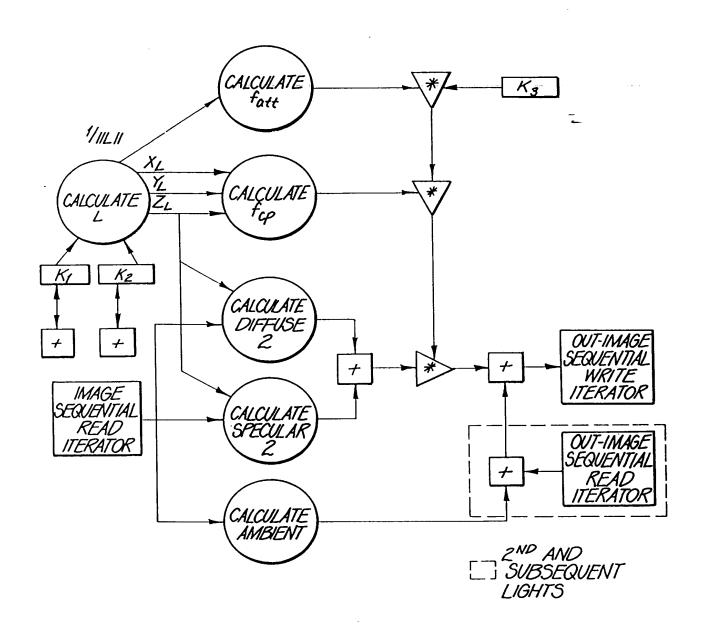


FIG. 151

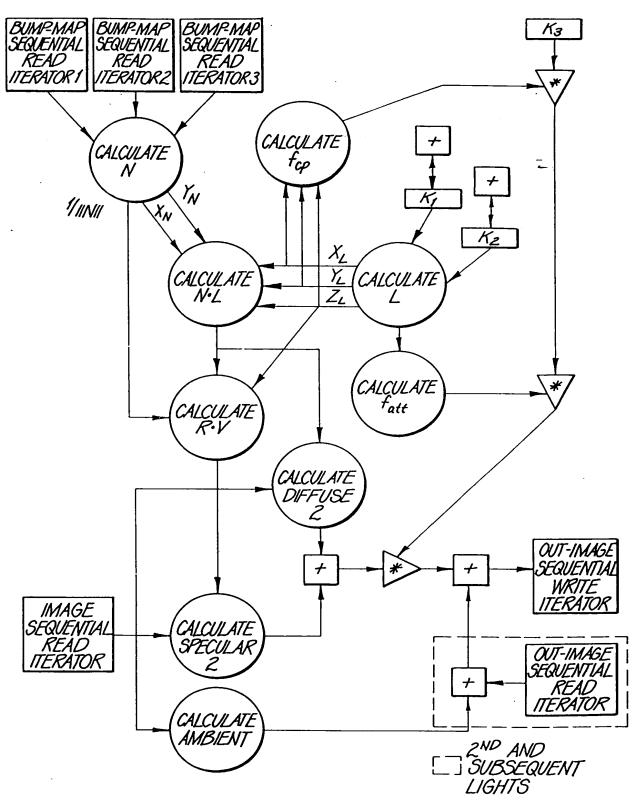


FIG. 152

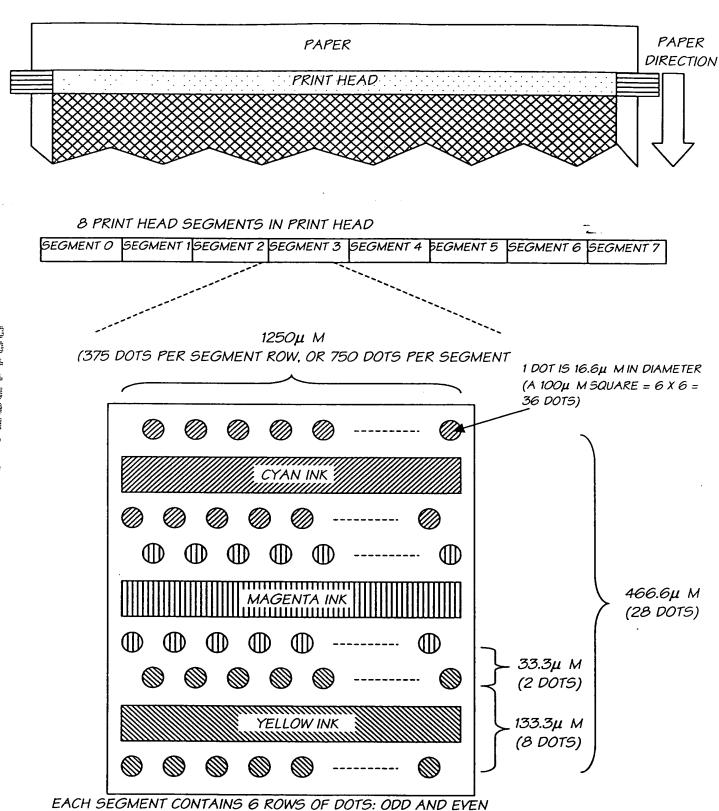


FIG. 153

CYAN, MAGENTA, AND YELLOW.

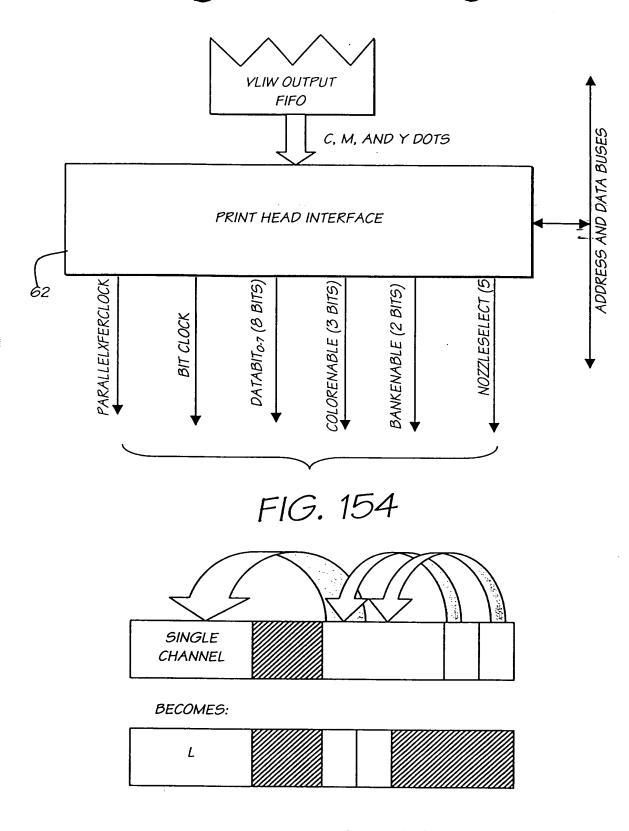
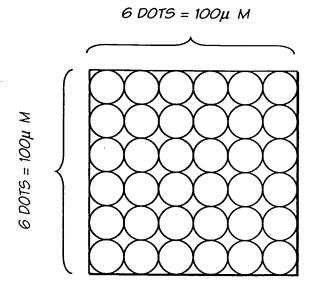


FIG. 155



1 PIXEL = 6 X 6 DOTS = 36 DOTS = 100μ M SQUARE

FIG. 156

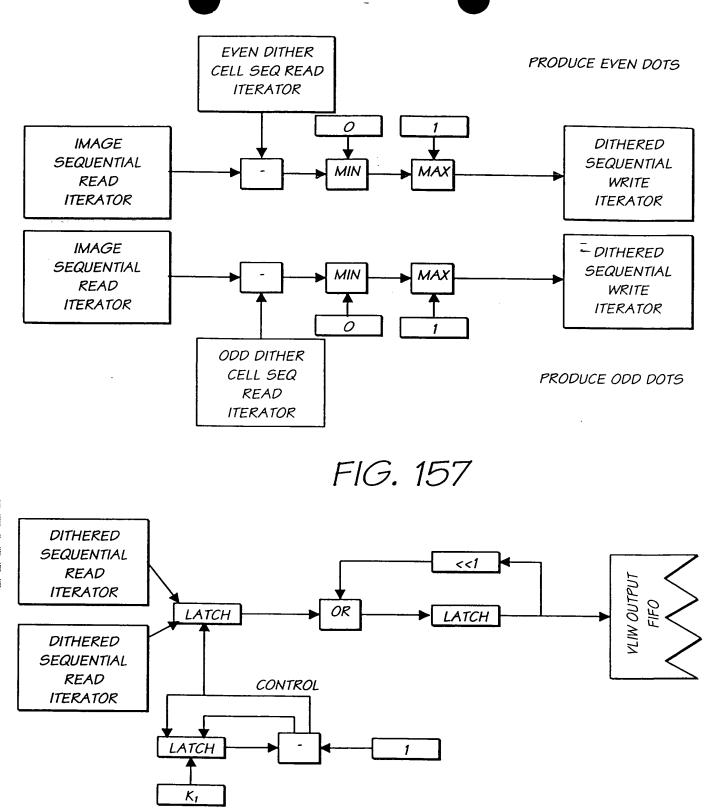
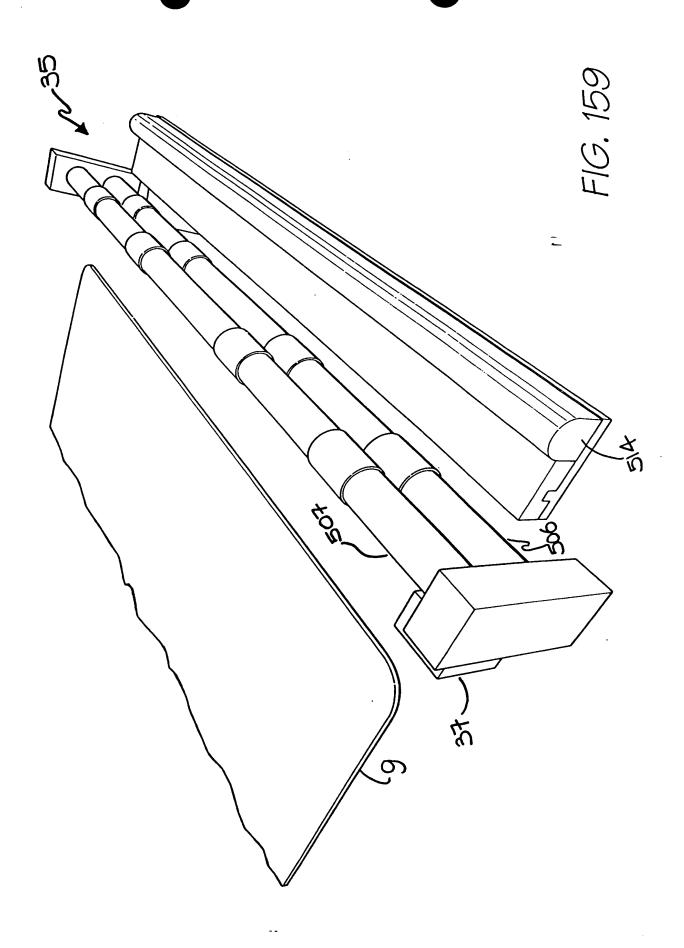
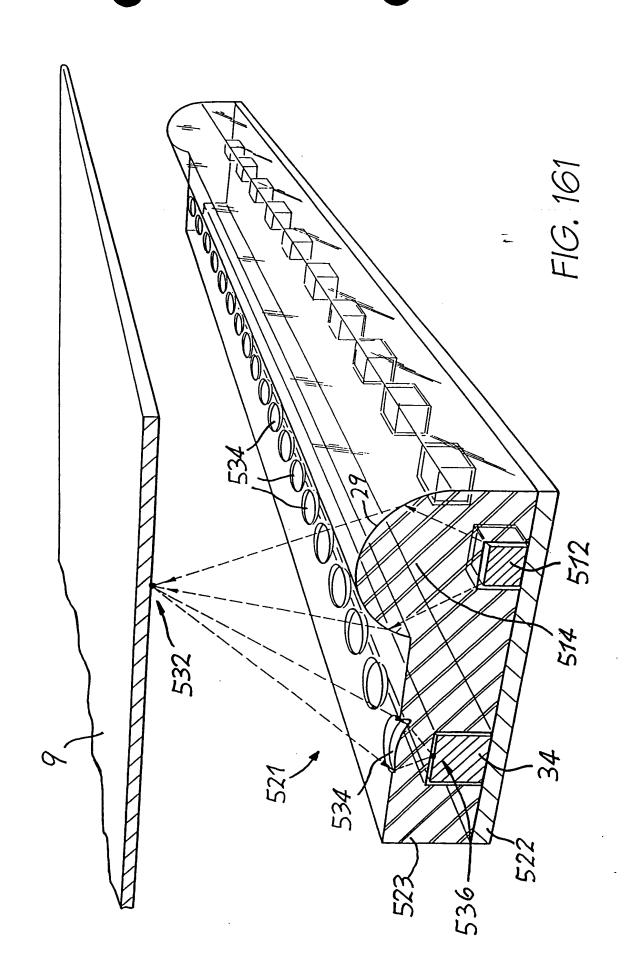
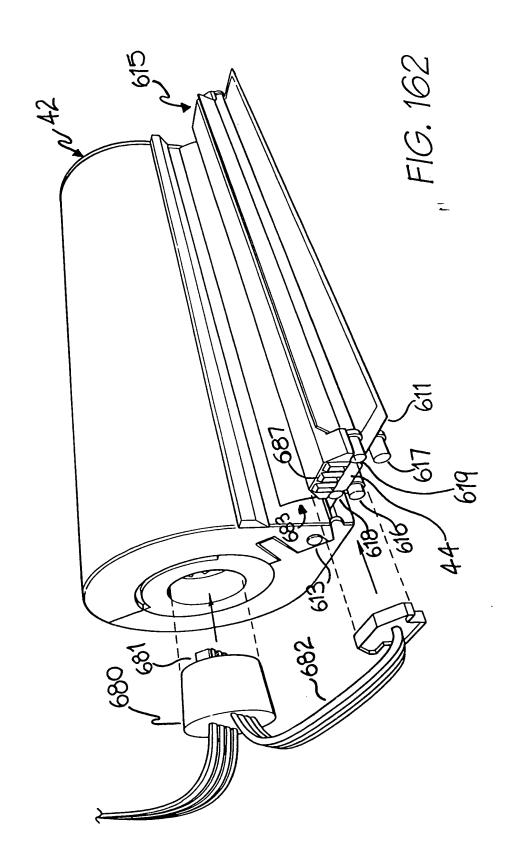


FIG. 158







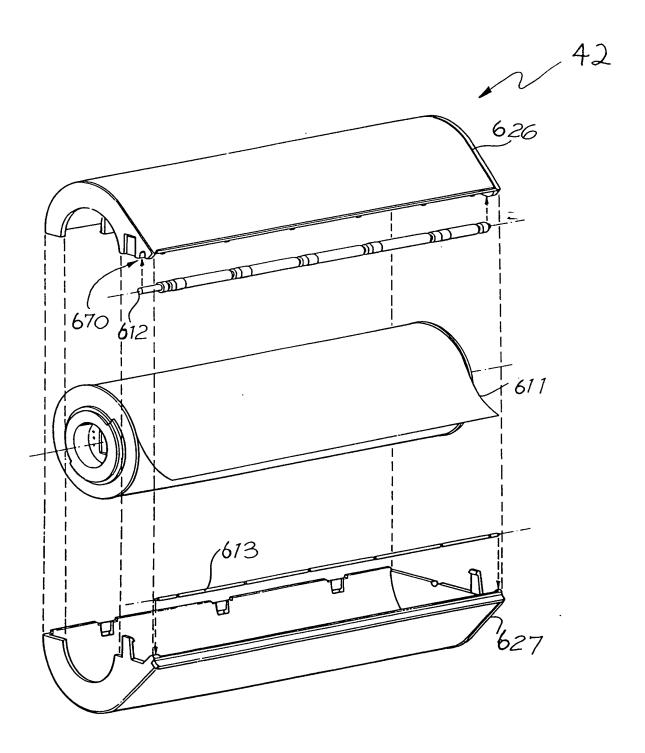


FIG. 163

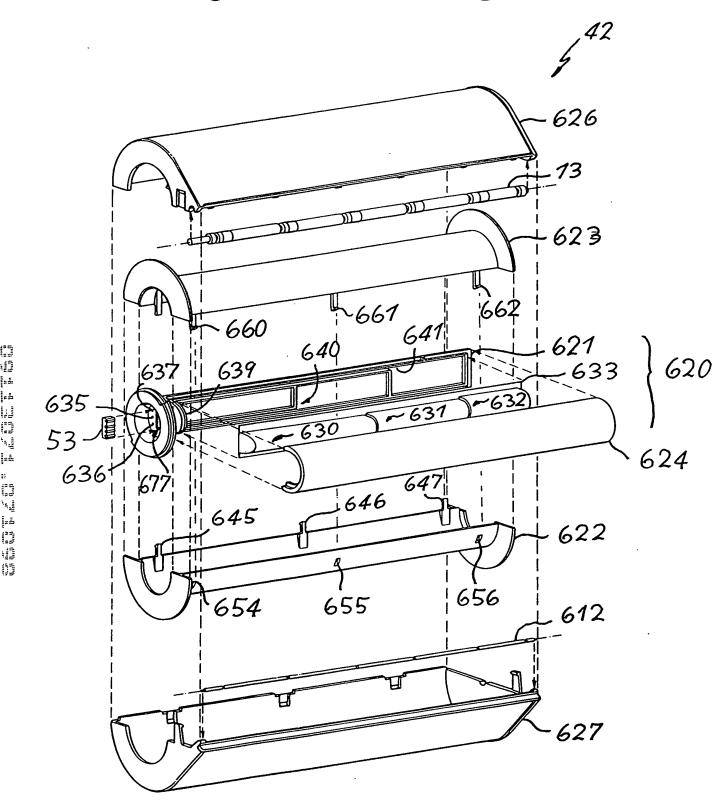


FIG. 164

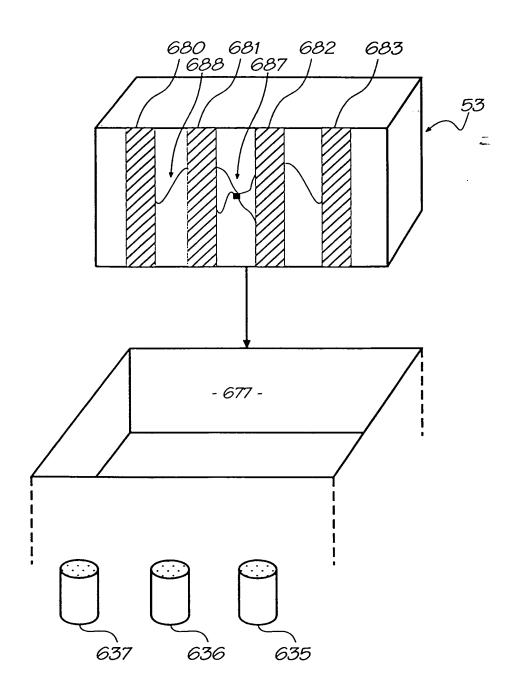


FIG. 165

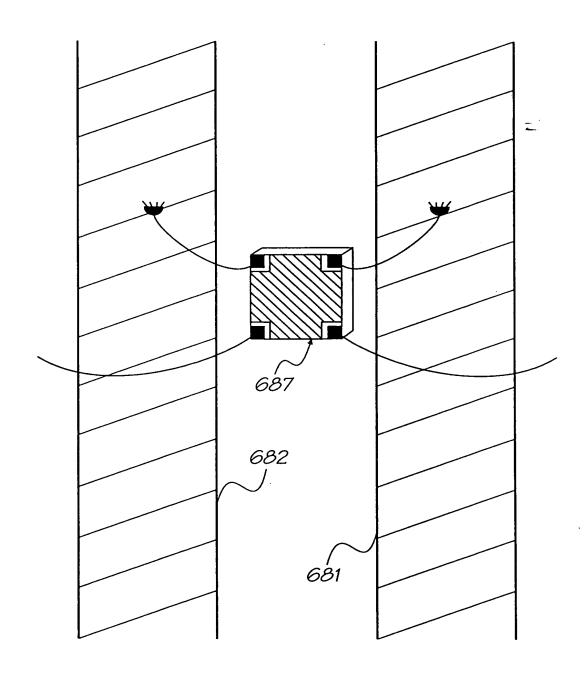


FIG. 166

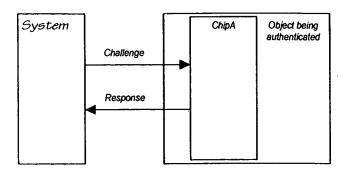


FIG. 167

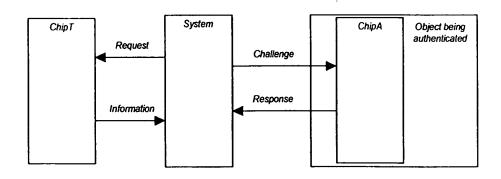


FIG. 168

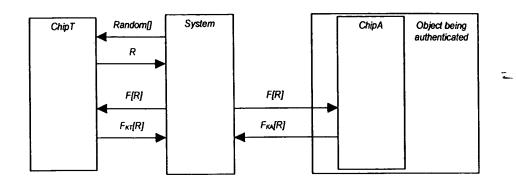


FIG. 169

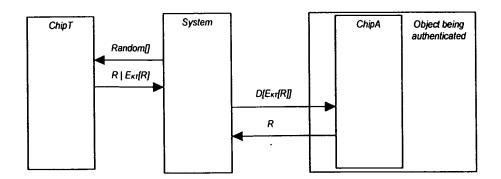


FIG. 170

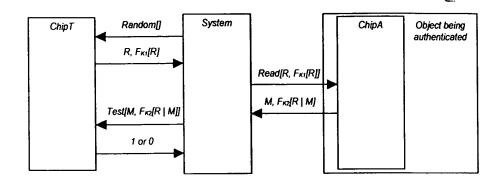


FIG. 171

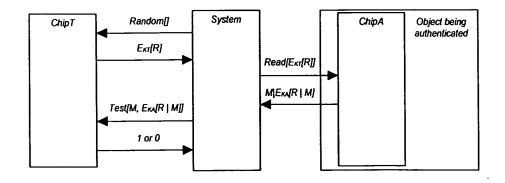


FIG. 172

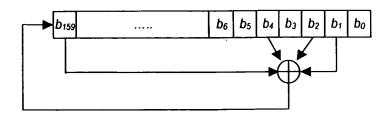


FIG. 173

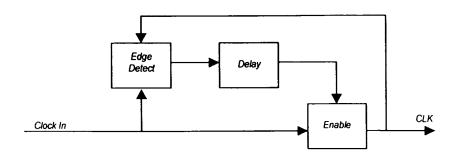
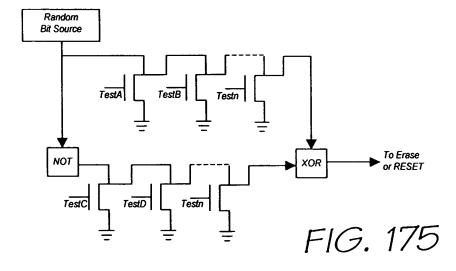


FIG. 174



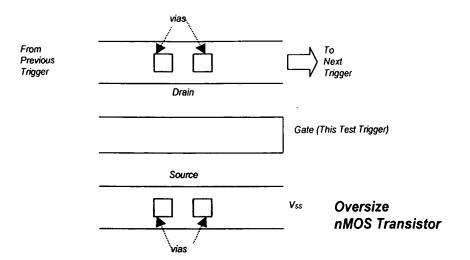


FIG. 176

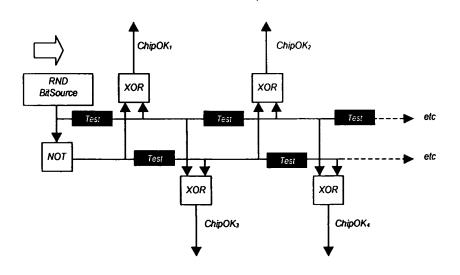


FIG. 177

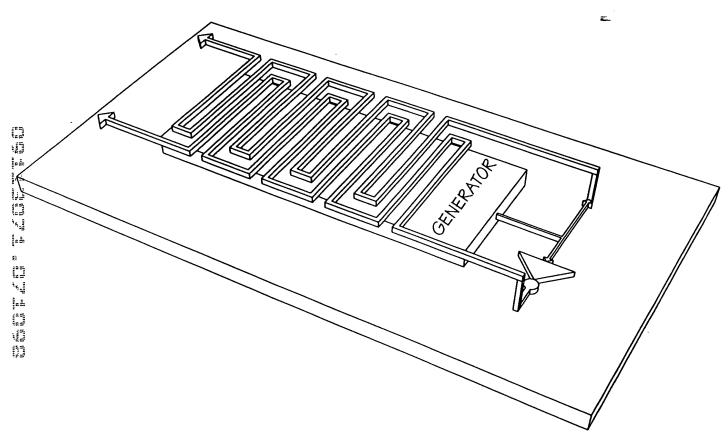


FIG. 178

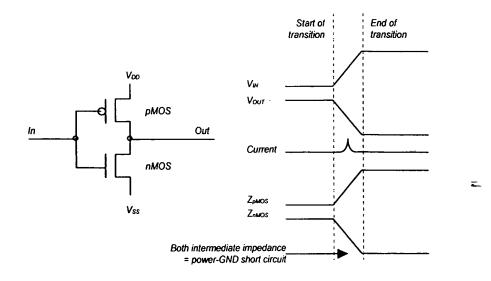


FIG. 179

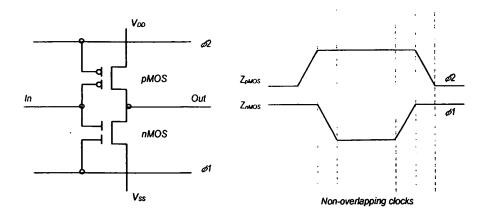


FIG. 180

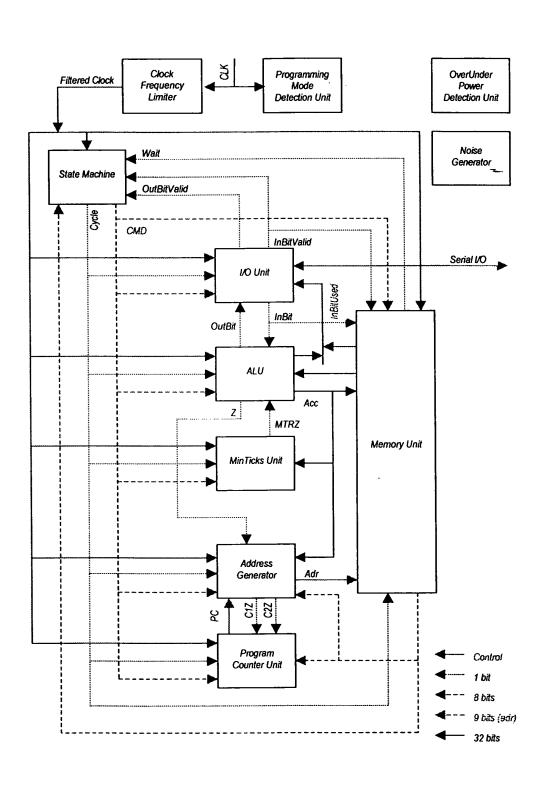


FIG. 181

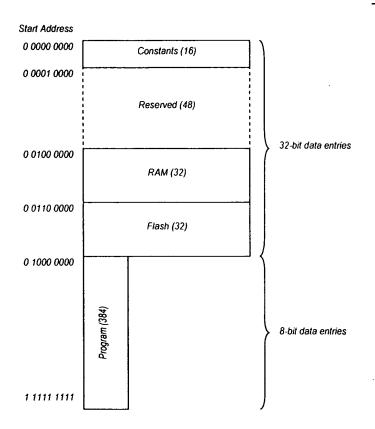


FIG. 182

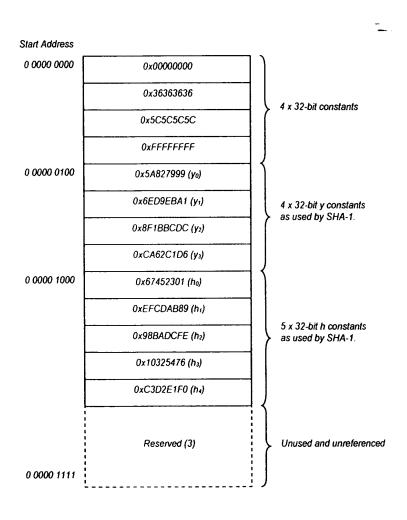


FIG. 183

Start Address		Start Address		
0 0100 0000	E	0 0101 0000	X ₁₅	
	D		X14	
	С	A-E	X ₁₃	
	В		X ₁₂	
	А		Х11	
0 0100 0101	Т	Temp	X ₁₀	
0 0100 0110	H ₄		X ₉	
	H ₃		X ₈	Xo 15
	H ₂	Ho.	X ₁	}
	H ₁	-	X ₆	
	H₀		X ₅	
0 0100 1011	B160₄		Χ,	
	B160 ₃		X ₃	
	B160₂	B160 _{0.4}	X ₂	
	B160 ₁		X ₁	
0 0100 1111	B160₀	0 0101 1111	Χο	
		J <i>.)</i> L		

FIG. 184

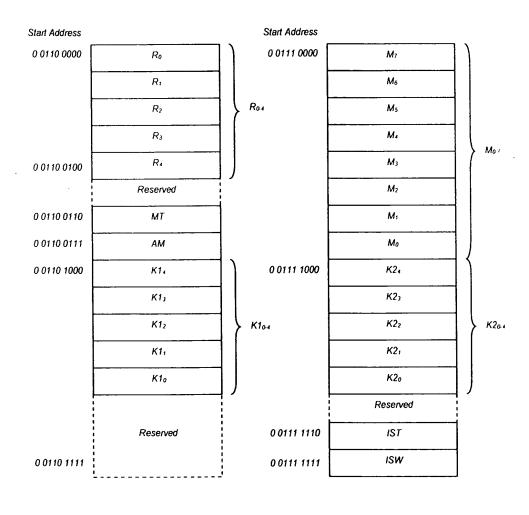


FIG. 185

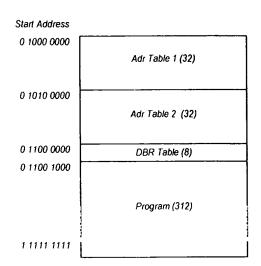


FIG. 186

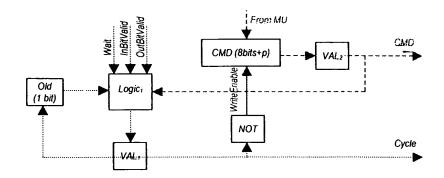


FIG. 187

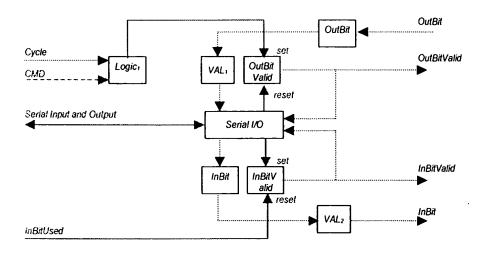


FIG. 188

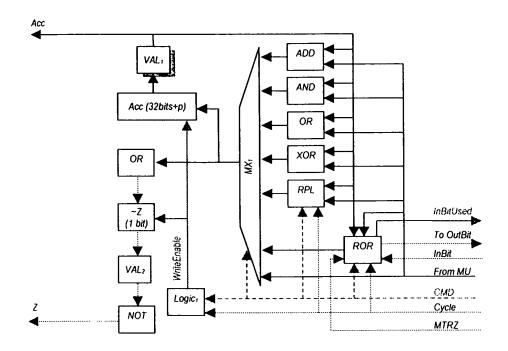


FIG. 189

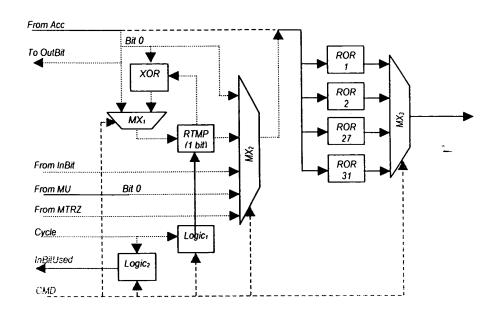


FIG. 190

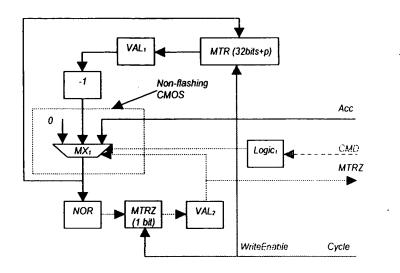


FIG. 191

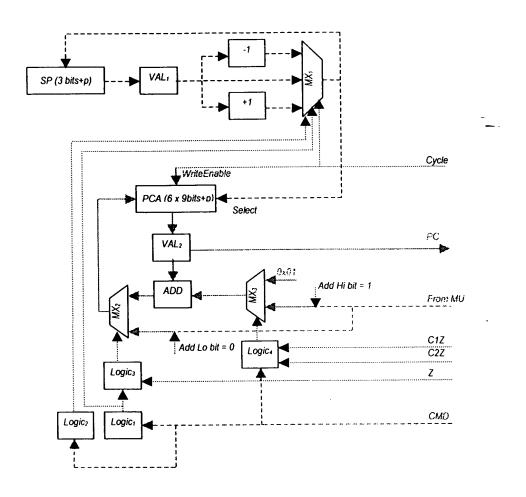


FIG. 192

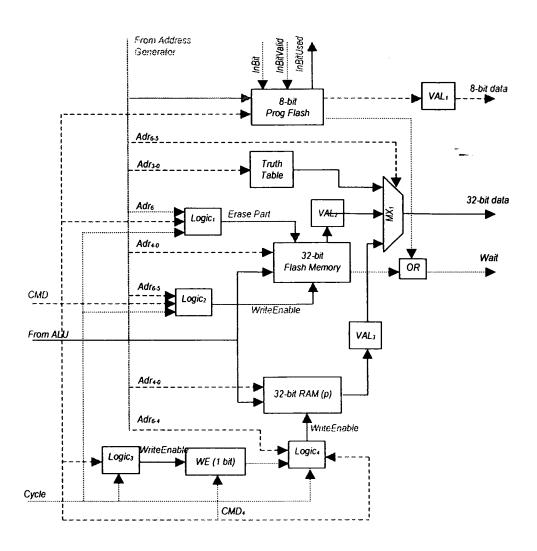


FIG. 193

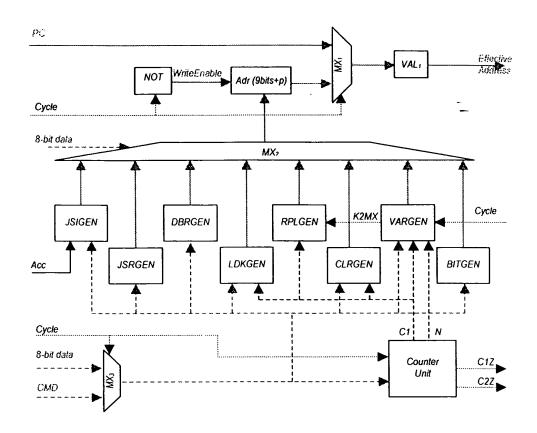
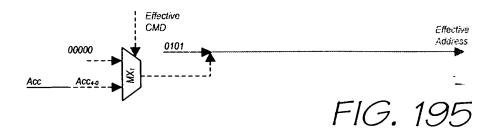
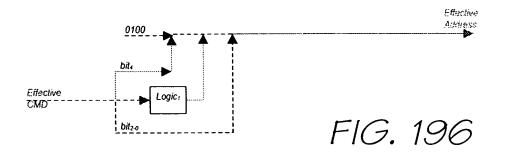


FIG. 194







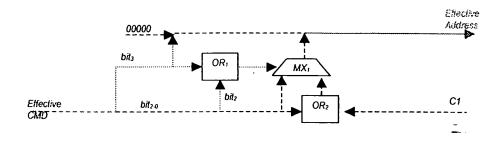


FIG. 198

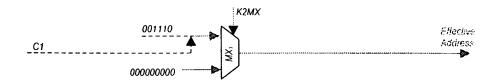


FIG. 199

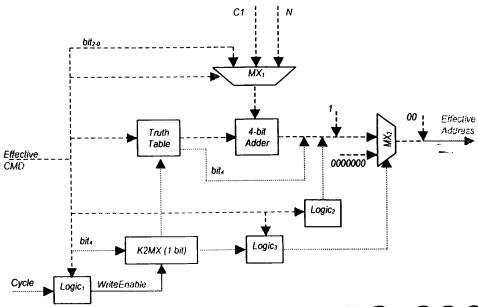


FIG. 200

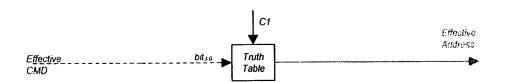


FIG. 201

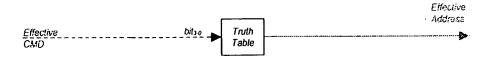


FIG. 202

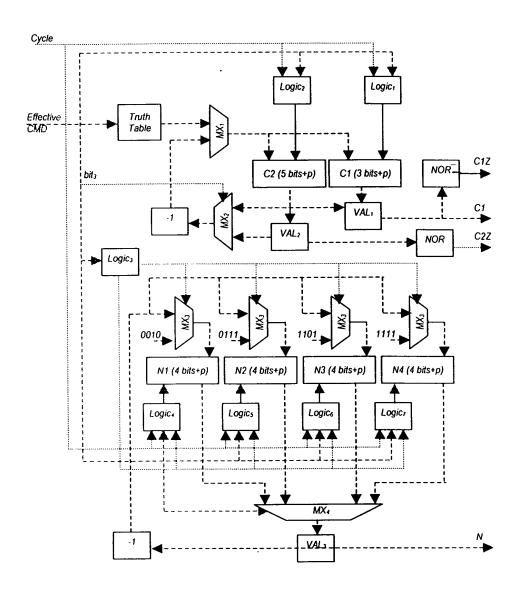
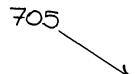


FIG. 203



Data Type	Bits
Factory code	16
Batch number	32
Serial number	48
Manufacturing date	16
Media length	24
Media type	8
Preprinted media length	16
Cyan ink viscosity	8
Magenta ink viscosity	8
Yellow ink viscosity	8
Cyan drop volume	8
Magenta drop volume	8
Yellow drop volume	8
Cyan ink color	24
Magenta ink color	24
Yellow ink color	24
Remaining-media length indicator	16
Authentication key	128
Copyrightable bit pattern	512
Reserved for camera use	88
Total	1024

728

FIG. 204

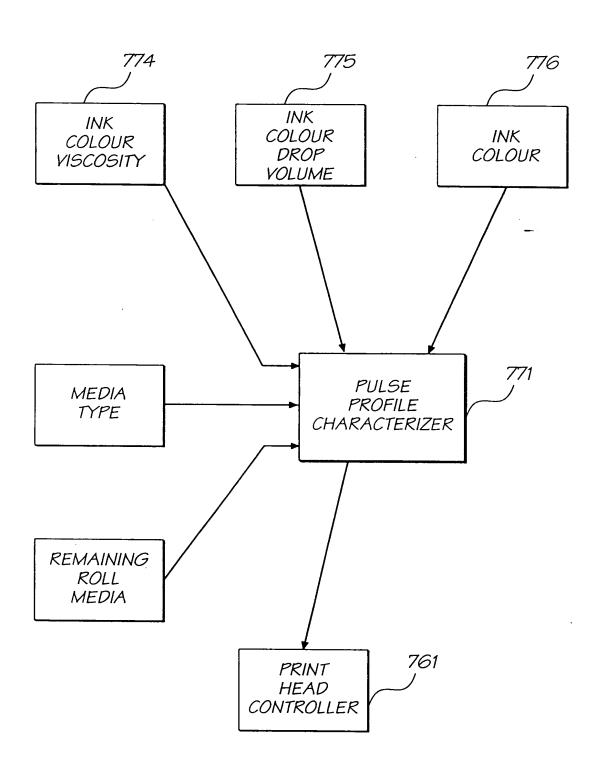
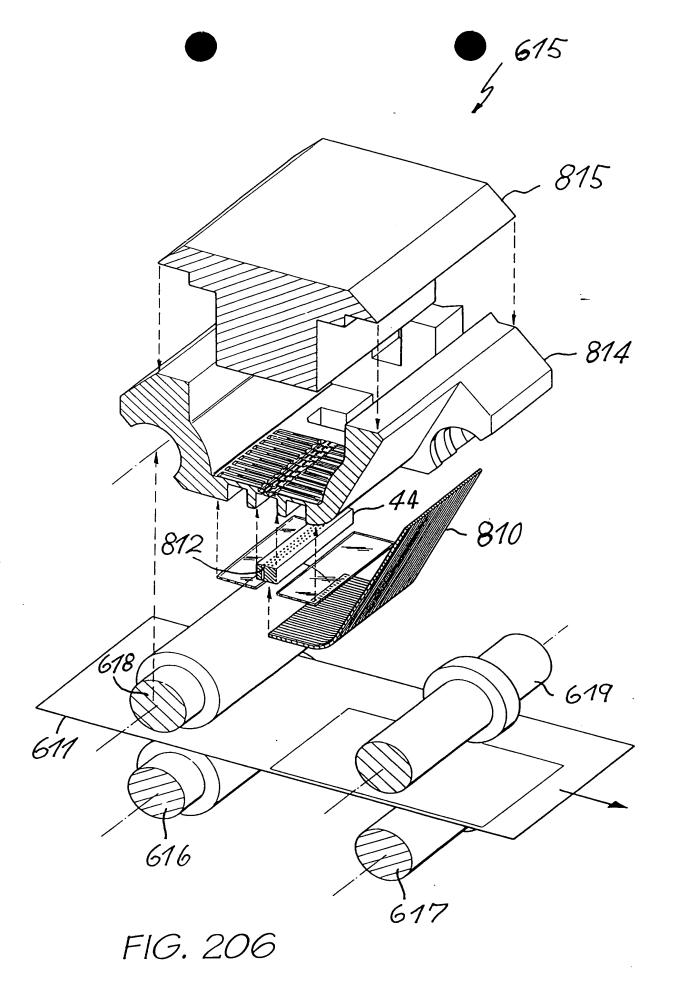


FIG. 205



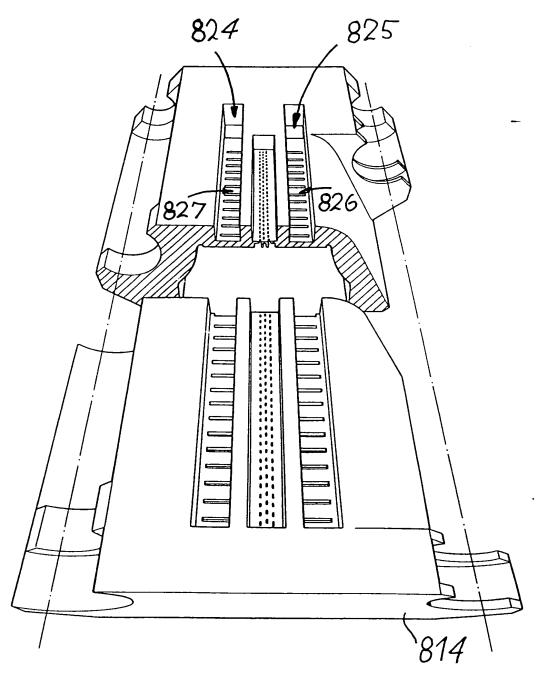


FIG. 207

FIG. 208

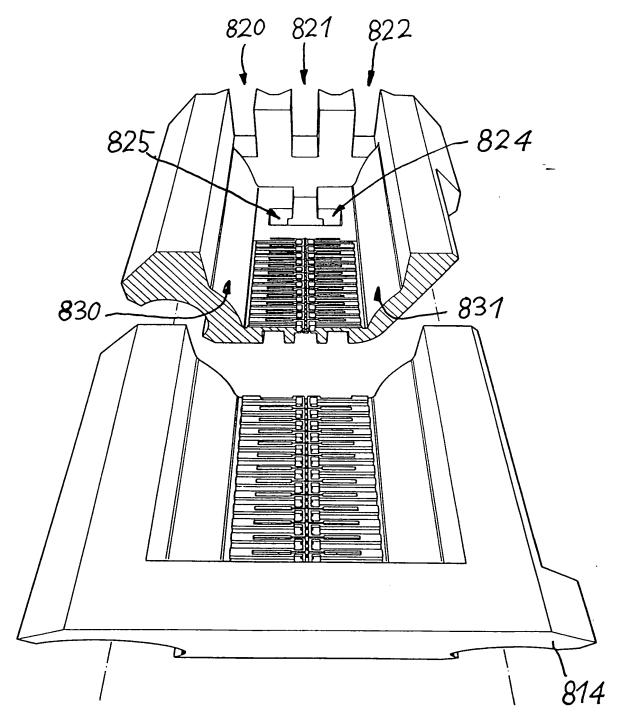
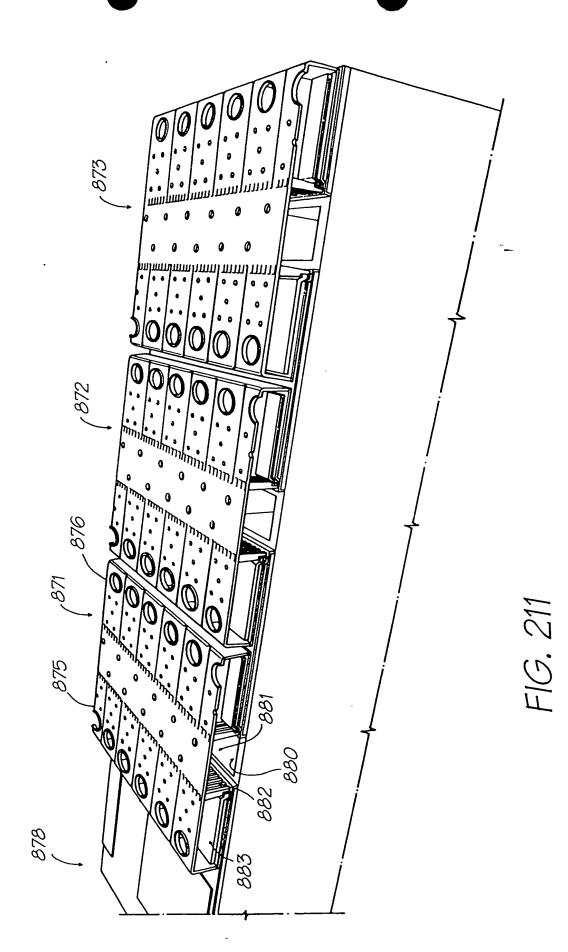
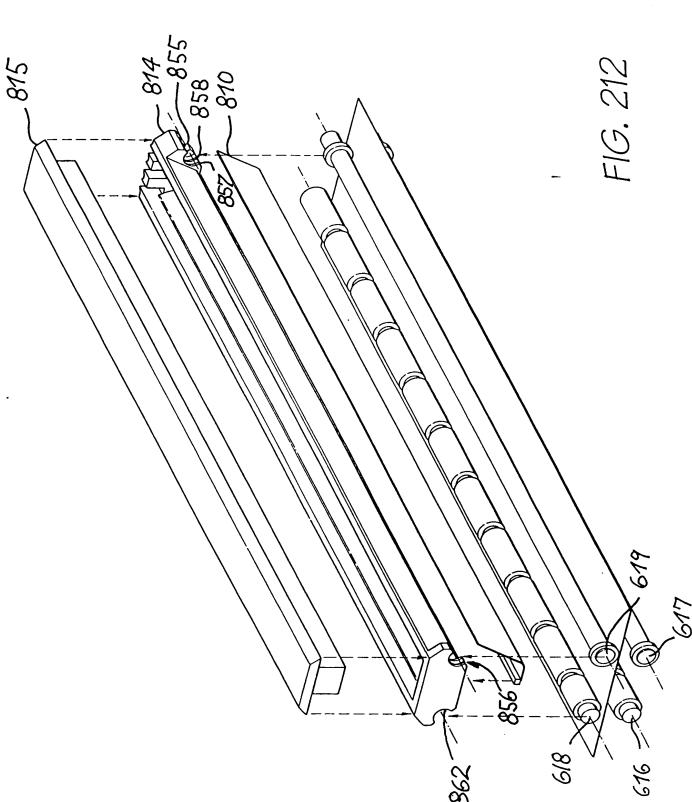
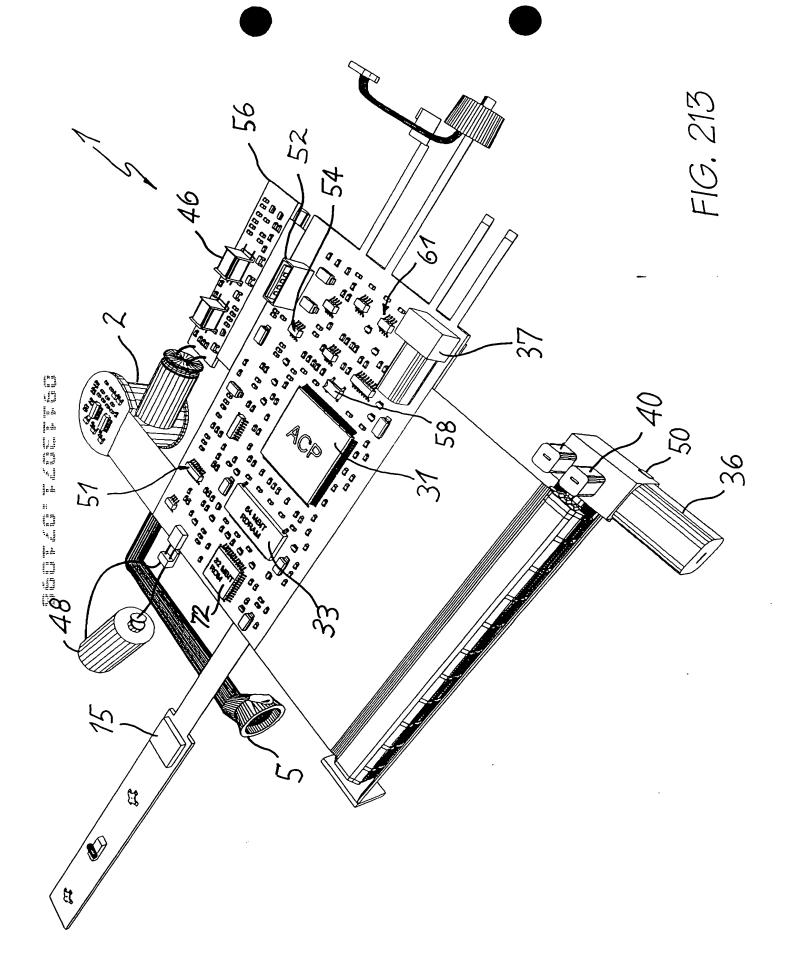


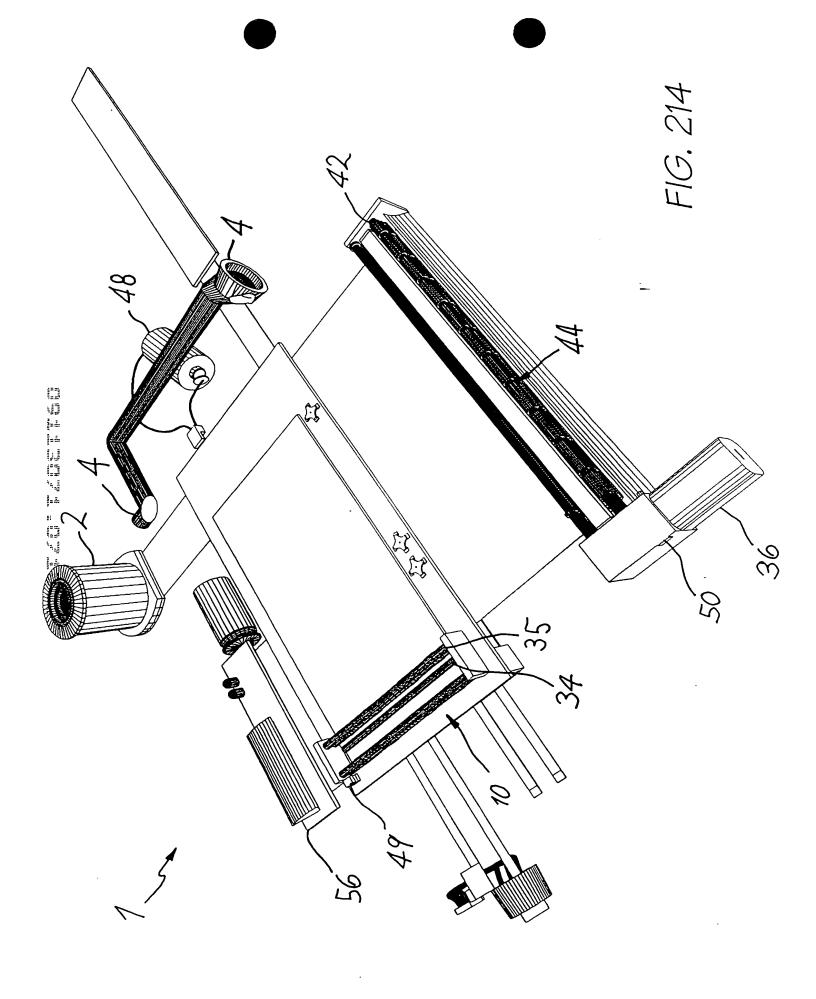
FIG. 209

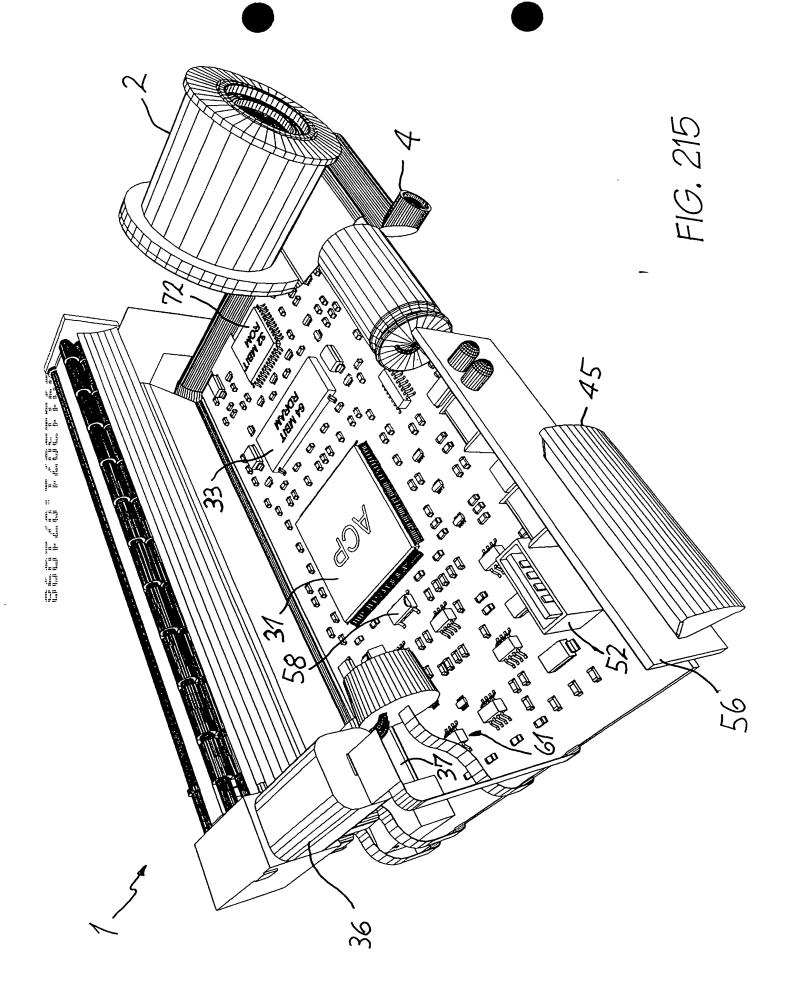
FIG. 210

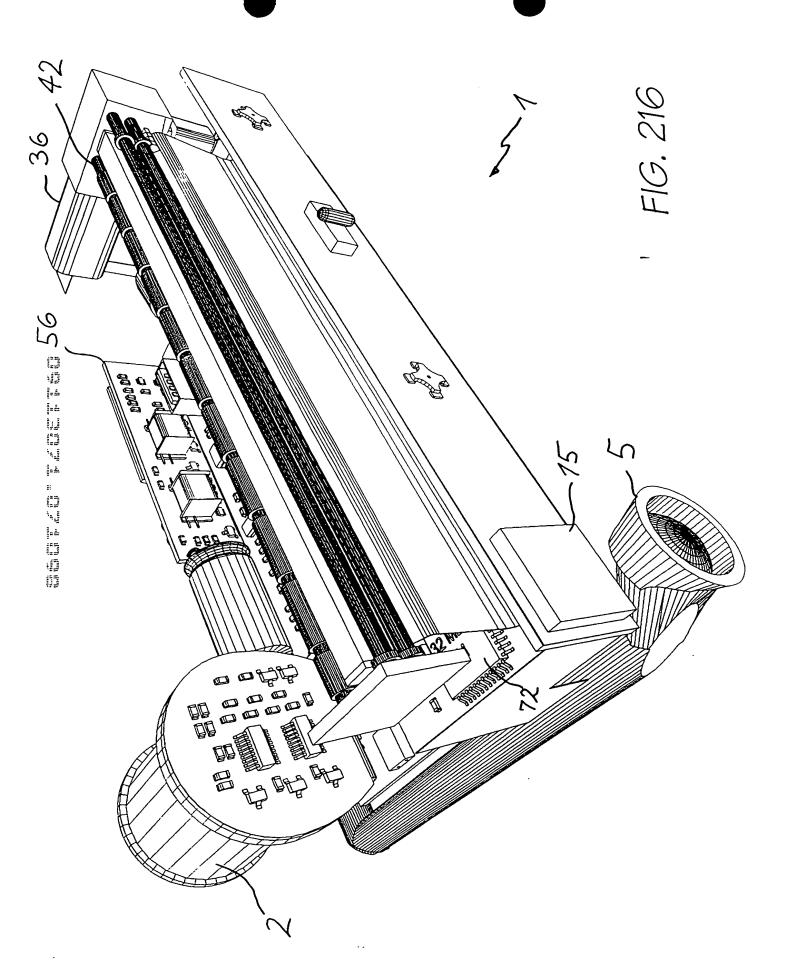


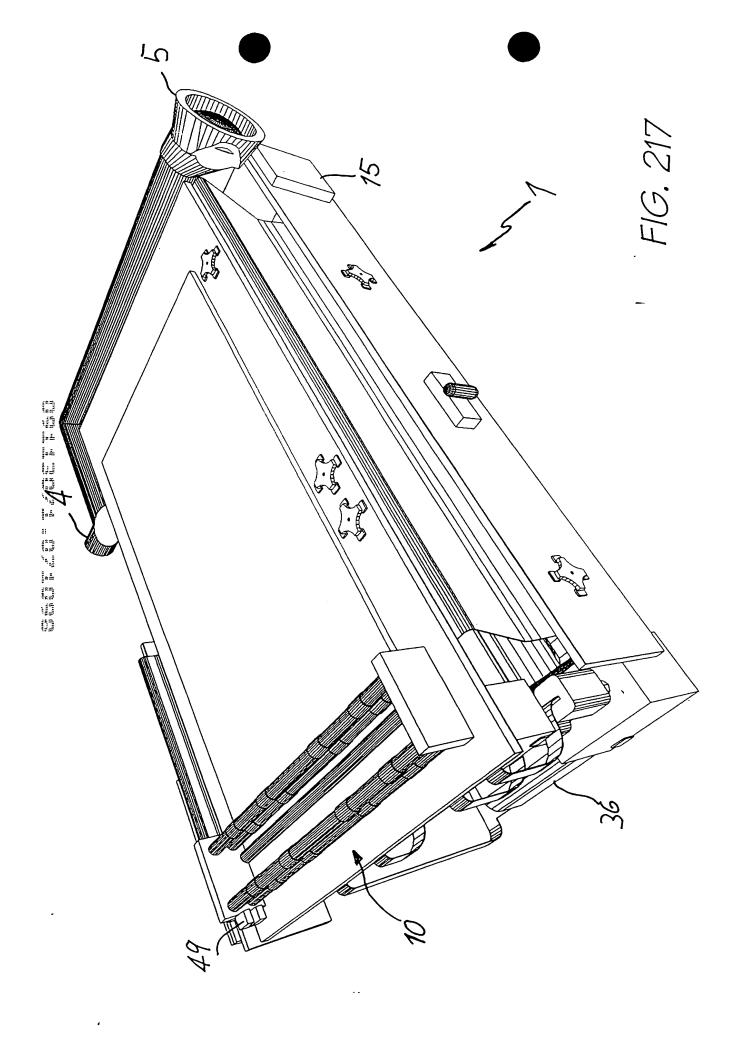












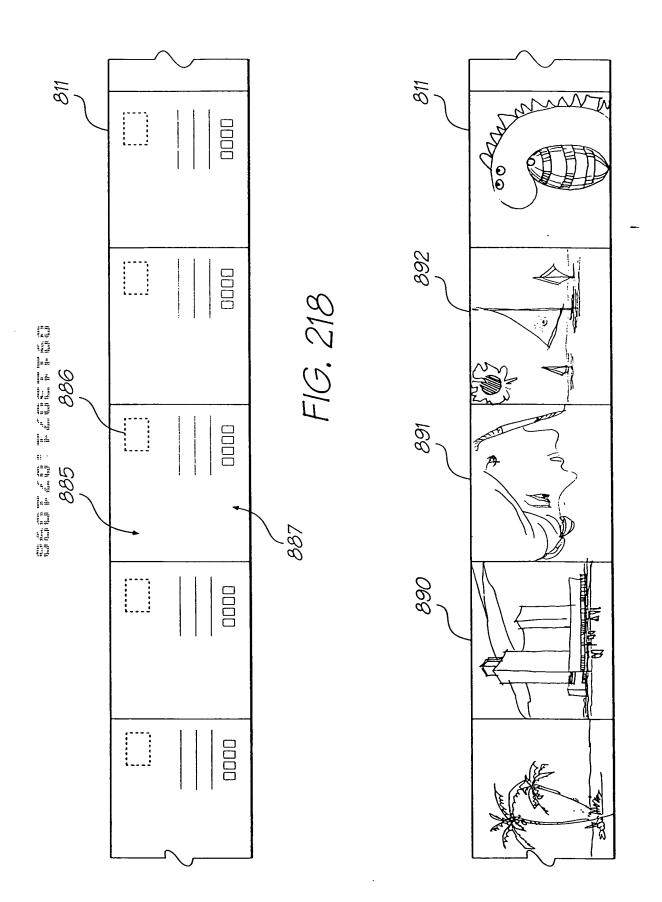
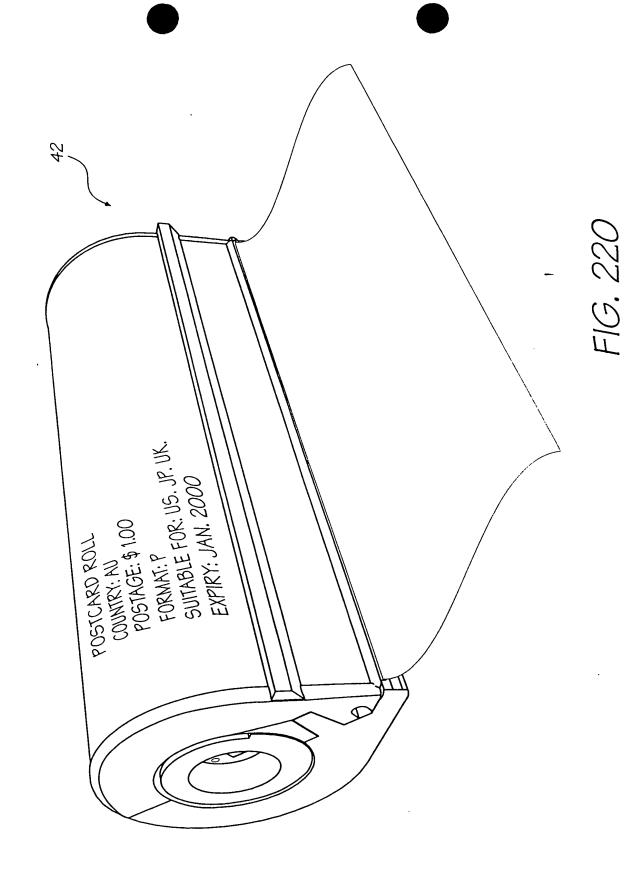


FIG. 219



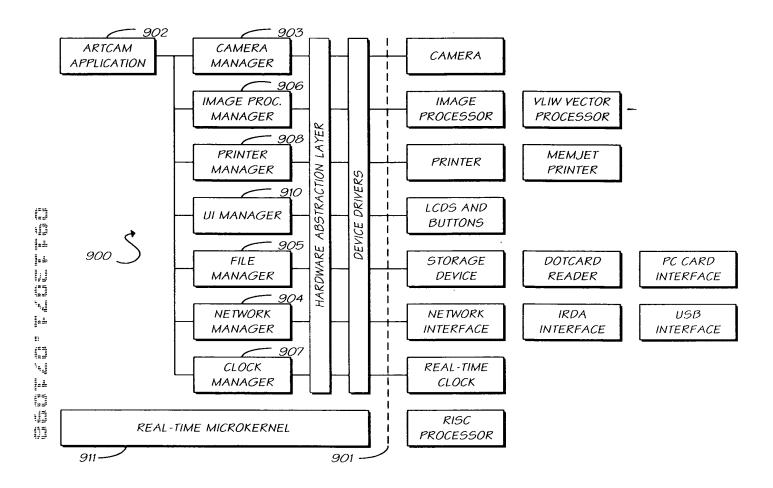


FIG. 221

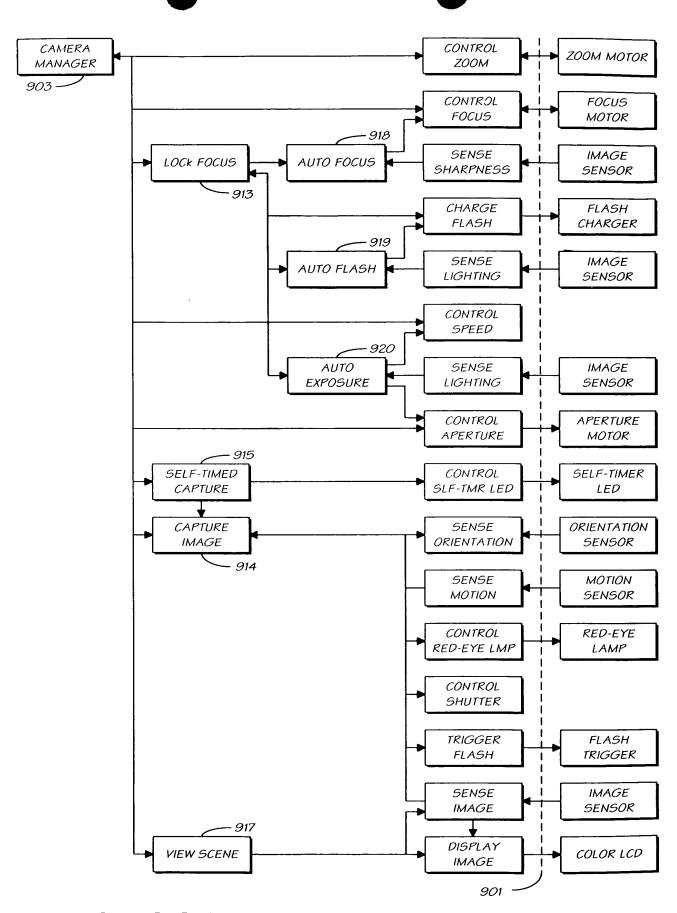


FIG. 222

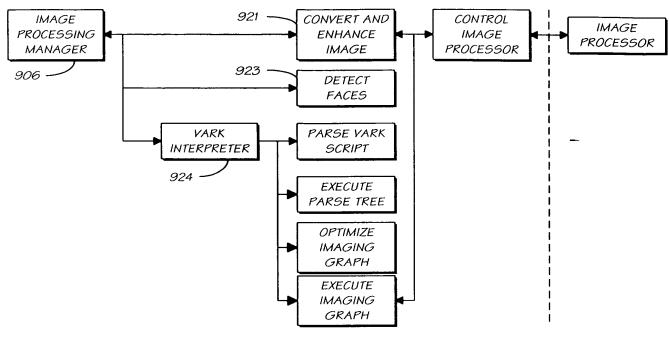


FIG. 223

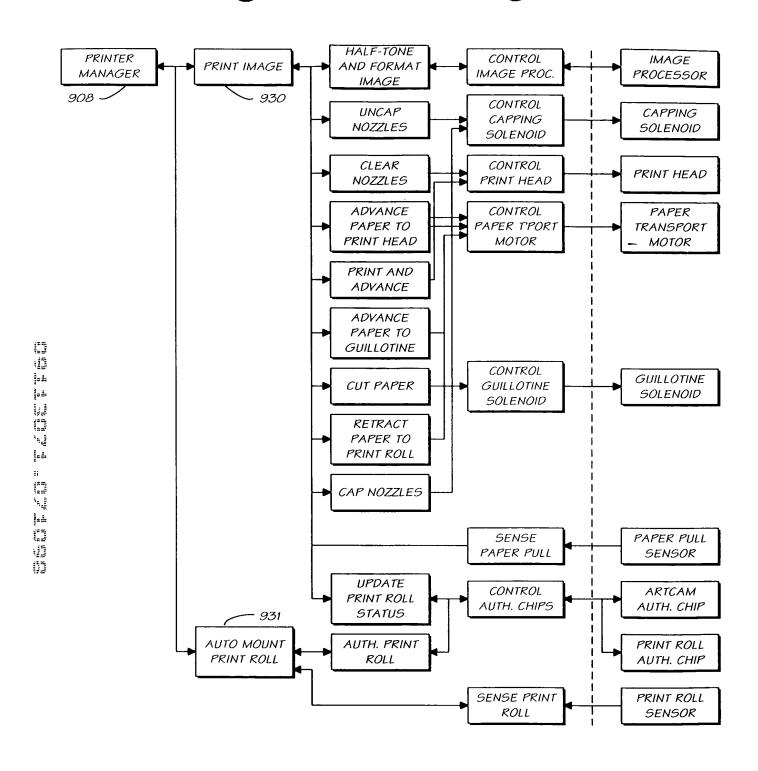


FIG. 224

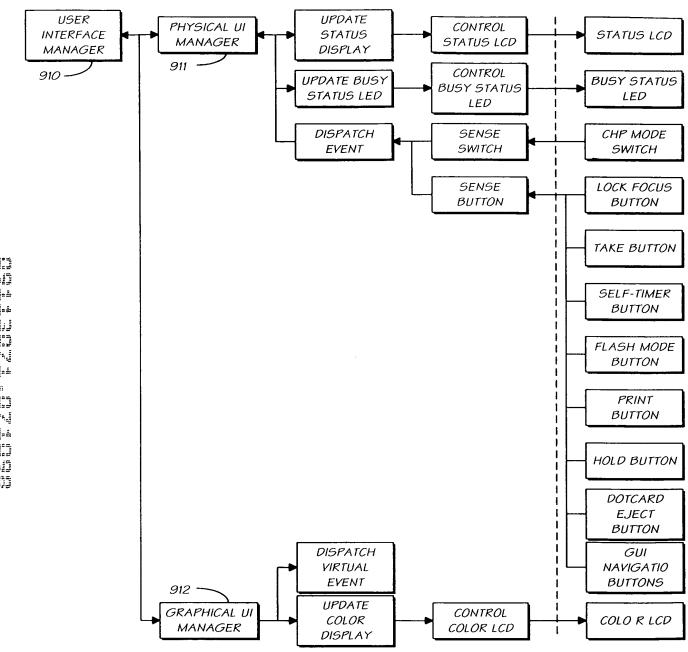


FIG. 225

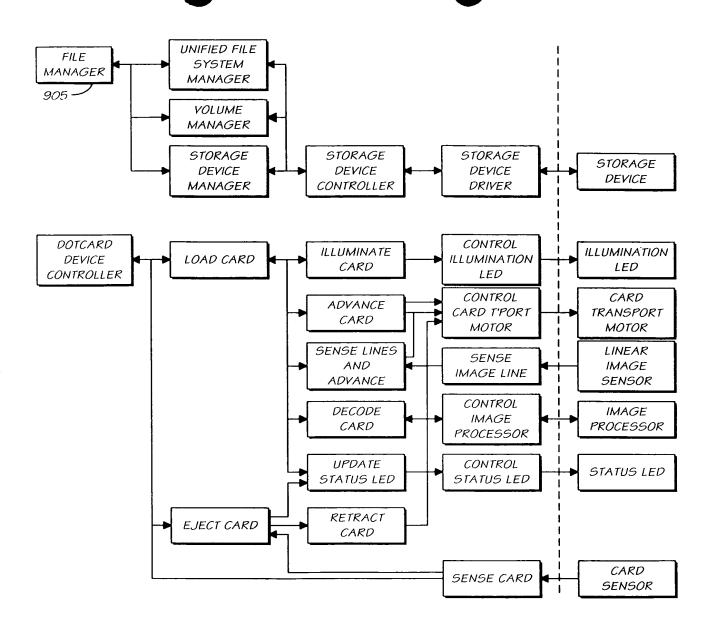
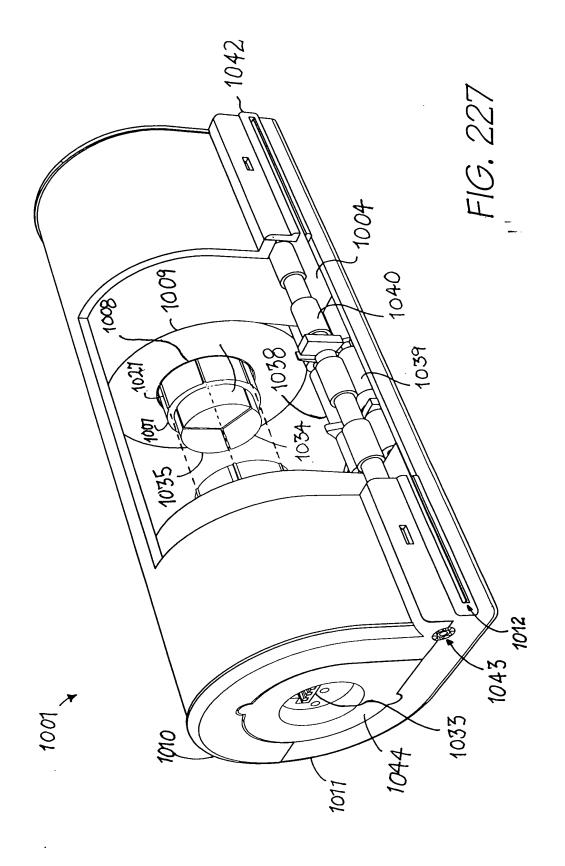
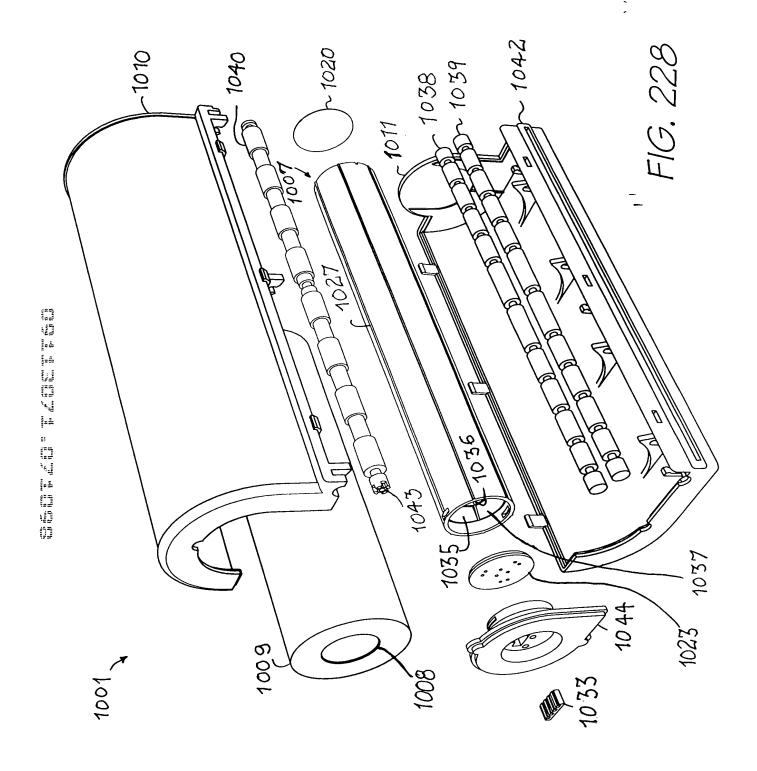


FIG. 226





\$\infty\$ \text{Total \$1 \text{ first \$1 \text{

